

FLORIDA *Highways*

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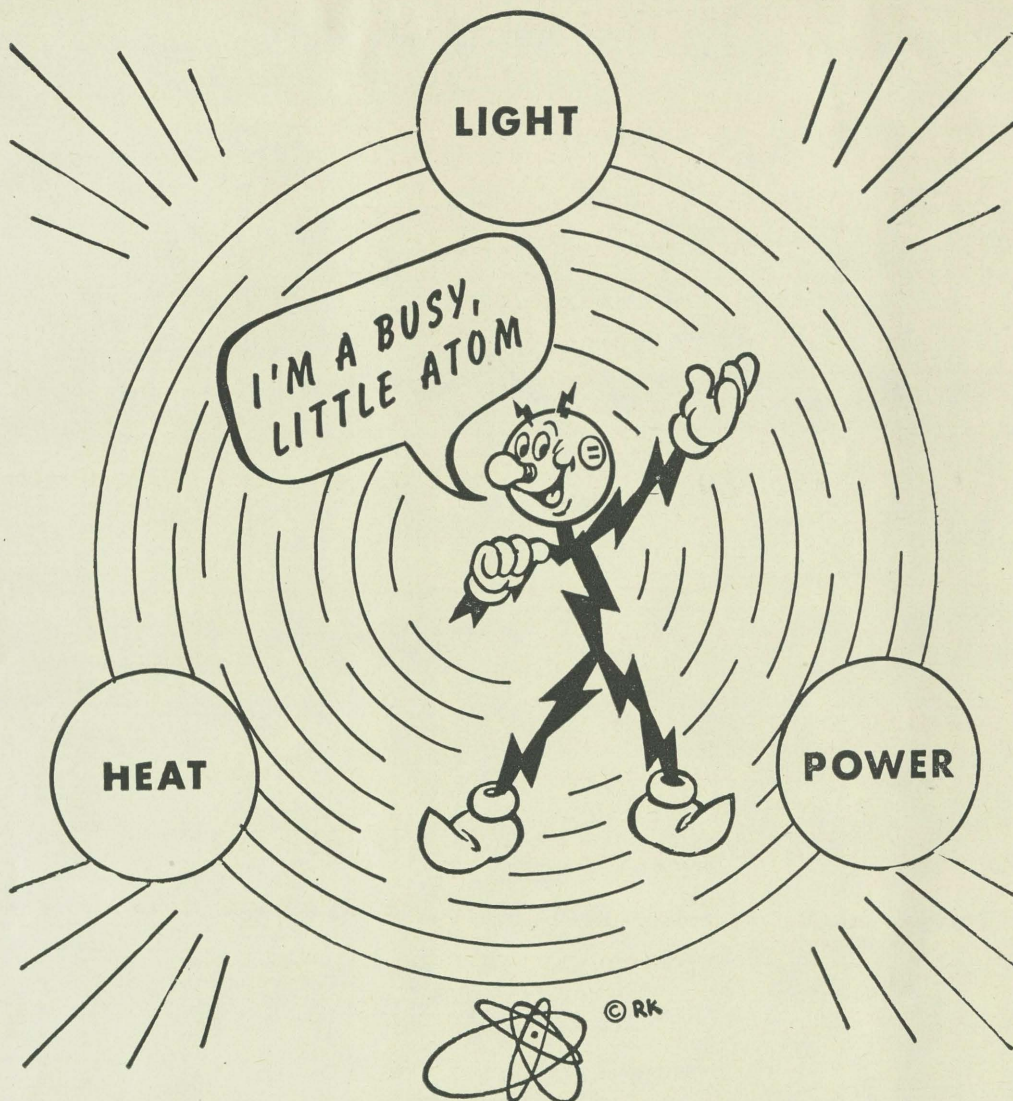
AUGUST 1946

Price 25 cents



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Limerock Experiment
Dania Monkey Farm
Karakul Sheep



I'm a busy little atom
I split myself in two,
I multiply as many times
As I have jobs to do.
In summer, winter, spring or fall
I'm ready every hour;
Just push a switch and watch me zip
With . . . light . . . or heat . . . or power.

Reddy Kilowatt
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FLORIDA POWER CORPORATION

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HURRICANE TREE FENCE

John C. Clifford, professor of tropical forestry at the University of Miami, has suggested that hurricane "fences" of living trees be planted on the Florida keys to protect that area against the destructive forces of nature.

In making his recommendation the forestry professor explained that "when a wind strikes a forest of shade trees it is not only diverted upwards but it is checked and divided by every twig and branch." He said a "shelter-belt 200 feet wide containing in its center, trees 50 feet high would protect a zone of 1000 feet from the full velocity of hurricane winds.

"If a series of such belts are constructed, vast areas would be safe especially along the shore of almost tropical seas," he declared. He pointed out that "automobiles have streamlines to deflect the wind. The same applies to snow-sleds and shelter-belts and should apply as well to the place in which you and your family are to seek shelter."

State Forester C. H. Coulter has concurred in Gifford's theory and recommended the selection of hardy trees with well-anchored roots for use in the shelter belts and suggested mangroves and Australian pines as ideal.

Nature gives us the tools, in many instances, to combat the forces of nature. We now know that because the land was denuded of its forest growth, the terrible dust in the western grain belt blew away the rich top soil and laid waste thousands of fertile acres. By planting a shelter belt of trees, much of the "dust bowl" in the west is being reclaimed and in time, if the planting program continues, will again be restored to its former fertility, as the moisture is restored to the soil.

The Gifford theory of a hurricane "fence" of trees seems logical and it certainly is feasible to grow such a forest barrier to deflect the recurring hurricane winds which have brought such destruction on the lower Florida coast and the keys off shore. Even if

the shelter belt of trees did not prove 100 percent effective against hurricanes, it would be a good investment for the state. Florida can't have too many trees, of what ever kind. Such a shelter belt would prevent erosion and restore fertility to the soil. In time the danger from hurricanes would undoubtedly be materially reduced.—Ocala Star-Banner.

SHE REMEMBERS WELL STAGE COACHES, INDIANS

When Mrs. Mary Valentine, of 129 East Fourth street, was a little girl in hoop skirts and pantalettes back in 1865 she helped comfort her mother who was deeply distressed about the death of Abraham Lincoln, a personal friend of the family.

Mrs. Valentine, who was 89 years old July 16, still has vivid memories of the days of her childhood when her father was a hotel keeper on the stagecoach route from Minneapolis to St. Paul. Some of the most exciting days of Mrs. Valentine's childhood were when the old Mississippi river showboats used to pull up to her father's dock and the actors and actresses would stay at the Ellison hotel.

Henry Ward Beecher, famed Civil War abolitionist, was also a frequent visitor at the Ellison hotel. Mrs. Valentine's father, J. R. Ellison, had been a slave owner in Virginia before taking his family to Minnesota. He freed all of his slaves when he left Virginia.

At one time the little girl's mother saved the family from being scalped by Indians by giving the war-painted savages all the food in the family larder.

"I can still see those fierce Indians with all of their war paint and big red feathers about a foot high sticking in their heads," Mrs. Valentine commented. She said the same tribe massacred most of the people living in the next town a day later.

Mrs. Valentine now lives with her daughter, Mrs. A. M. Nasser.—Jacksonville Journal.

... In Daytona Beach THE SHERATON PLAZA

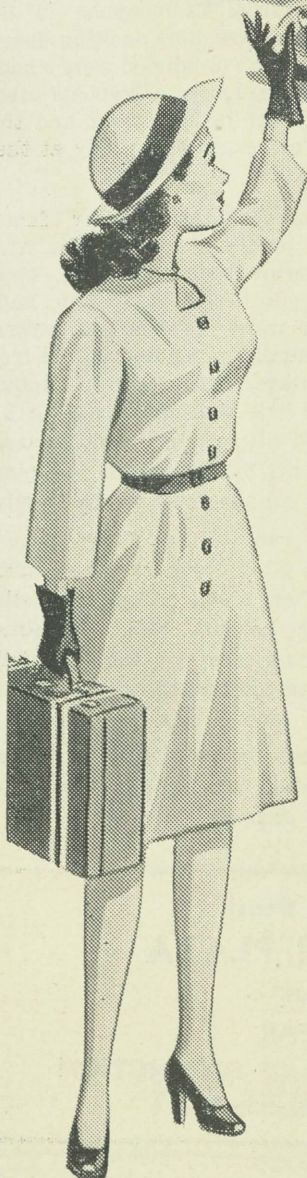
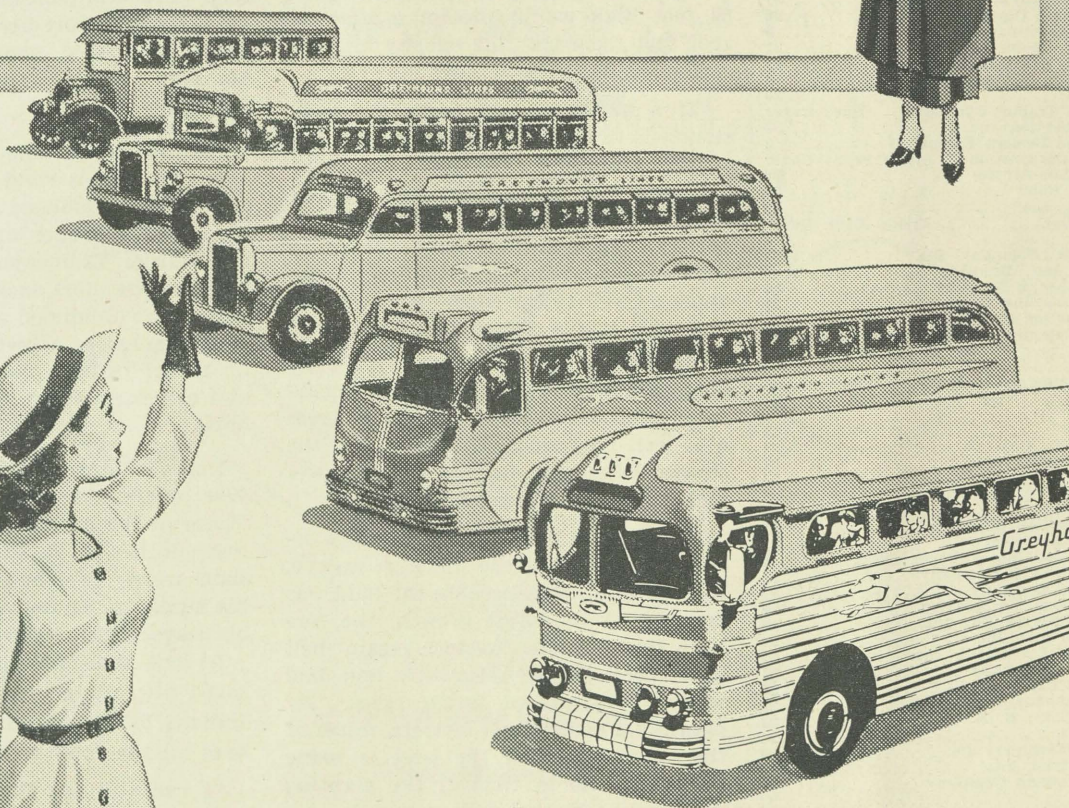
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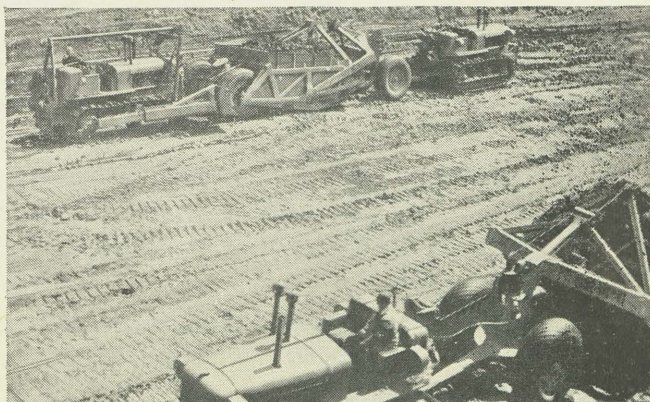
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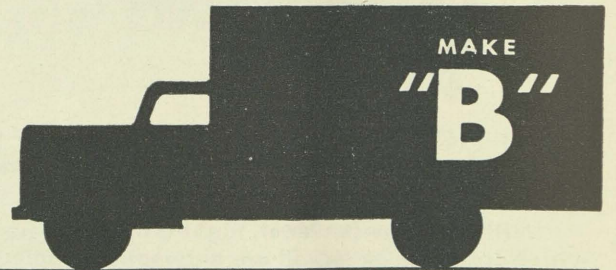
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FLORIDA HIGHWAYS

Official Publication of

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Association of County Commissioners—Florida Trucking Association, Inc.
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J. E. ROBINSON, Winter Garden..... Publisher

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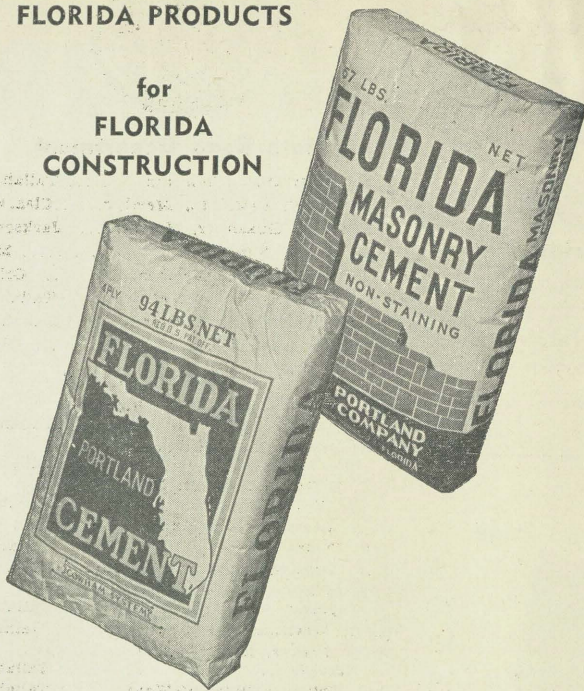
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EDITORIALS

Under a decision of the State Supreme Court funds have been released to speed ahead with the State construction program.

Building has been authorized all over the State, at the State institutions, farmers markets and other facilities. Into the State Building fund went first a specific appropriation of \$3,000,000 and then, under the decision of the supreme court, more than that much again, so that the total is running above six million dollars. Allocations out of the fund have been largest in the aggregate to institutions of learning and next to custodial institutions. A relatively small amount, just over a half million dollars, has been allocated to the Capitol Center program, in which only the South Wing of the Capitol building itself is under construction or under contract.

Of \$4,654,019 allocated to the institutions of learning, \$1,374,375 went to the University of Florida, \$1,588,504 to Florida State College for Women, \$1,362,000 to Florida A. & M. College and \$329,140 to the School for the Deaf and Blind.

To the State Hospital has been allocated \$1,421,268 and to all custodial institutions, except prisons, a total of \$1,731,159. The program of providing modern prison facilities is developing under an allocation of \$10,000 for planning. The decision of the Supreme Court will make the funds available for modern prison facilities when the State is ready to break ground.

Other funds have been set up for the Tuberculosis Board, State Board of Health, State Farmers Markets and for planning armories.

Some confusion has resulted from the fact that there are actually two Capitol Center programs: One a dream that may not be realized for decades and the other a plan for immediate action. The first Capitol Center Plan exists only in the form of drawings by the landscape architects—a plan that will allow for expansion and development over half a century. The connection between the two is that State officials are fitting their immediate construction plans in with that long-range plan for

future development. That is to say, they are placing the few structures to be erected in the near future so that they will not interfere later with the completion of the general project.

The South Wing of the Capitol was authorized by two separate Legislatures which made specific appropriations for its construction. It will contain the new Senate chamber and legislative offices and executive offices. Two legislatures authorized and appropriated funds for Supreme Court building. It will be placed appropriately in the Capitol Center.

Only two other buildings are included in the present Capitol Center construction plans. The first will be the Road Department building for which the department has funds of its own available. The second will be an Industrial Commission building which will be erected as a self-liquidating project and financed through rentals which are largely paid from federal sources.

The Road Department will be erected on vacant land which has been the property of the State since the town of Tallahassee was laid out by the territorial commissioners. Land will be acquired now only for the Supreme Court and Industrial Commission buildings—all of it in residential areas and with nothing on it now but a few dwellings, none of which is modern.

The State owns some land on two sides of the Capitol but the over-all plan provides for setting the buildings back from the Capitol and enlarging the Capitol grounds. At present there are some business blocks jammed close to the windows of the Capitol on the north side. Eventually this business property may be acquired and added to the Capitol Center but no funds have been allocated for that purpose and State officials have no idea of attempting that step now.

The Legislative act which appropriates unspecified surpluses from State funds for State building contains a schedule of construction recommended to the Budget Commission. In this schedule provision is made for two State Office buildings

estimated to cost \$400,000 each. Two state office buildings, in addition to the Capitol wing and Supreme Court building, are contemplated but since the Road Department and Industrial Commission are ready to finance their own structures, these will not appreciably burden the General Fund of the State. Only the two buildings for which two separate Legislatures made definite appropriations, the Capitol wing and Supreme Court building, will be financed from the General Fund. Building costs have advanced and the cost of construction may exceed estimates made years ago, but in no event will these two structures together cost one third as much as has already been allocated to the institutions of learning alone. Bids have not yet been asked for and the actual costs, therefore, are not known.

As the program continues the allocations to other institutions may catch step with allocations to institutions of higher learning. The best time to erect college buildings is during the summer recess and there is the added incentive that thousands of veterans and civilian young men and women are anxious to attend college this fall. At best it is doubtful that facilities can be completed in time to take care of them all. The construction of modern prison facilities, including provisions for women, will require expenditures of importance and will increase markedly the allocation of funds to custodial institutions.

In view of these simple facts it is difficult to understand how the impression was gained in certain quarters that most of the building fund was going into the Capitol Center. Actually ten times as much or more has gone into other facilities.

The Capitol Center construction will come none too soon. At present State service is actually suffering from lack of adequate working space. Many offices are so crowded that there is not elbow-room. Many State departments are renting space in dwelling houses and elsewhere about the city. High efficiency is impossible under such conditions and the people of Florida expect good service.

"Dania Monkey Farm"

Mike Schindler

The citizens of Dania, Florida, call it "the monkey farm."

To the casual visitor from Miami, or to the sight-hunting tourist, it is a sort of zoo, with as a sideline of African and Asiatic curios. . . .

But to Armand and Mrs. Denis it is a life work.

To me, after I had visited the place with a reporter's curiosity the other day, and had chatted away an afternoon among the chimpanzees, it took on the proportions of a holy work—as any work done to alleviate human pain, especially the pain of children, is indeed holy work. . . .

As you drive along U. S. Highway No. 1 just north of Dania's city limits, you see a sign which announces that here is the Denis-Roosevelt Chimpanzee Farm, Anthropoid Ape Research Foundation. Behind the sign are log cabins, log huts, a log bungalow, log-roofed, open-sided sheds, clumps of trees—and a bedlam of chattering and screeching and laughing . . . the sounds the explorer or big game hunter hears in the African bush when he comes on a village of monkeys or chimpanzees.

Curious, you enter, pay your small fee, walk into the big bungalow and find yourself surrounded by knives and spears and mats and carved elephant tusks and whatnot . . . just another curio shop, you tell yourself.

Then you walk out into the farm proper where you see chimpanzees (which you probably tell your small son are monkeys) sitting in the open sheds, light chains attached to collars keeping them from galloping away into the nearby Everglades. You wander from open shed to cage to hut, amused by the antics of the animals, hurrying Junior along because you promised to take the family to a movie that night. . . .

But if you are fortunate enough to meet Armand Denis when he isn't too busy you won't rush your visit . . . you will learn that here, in what looks like any other small zoo, a work is being performed that will one day have the gratitude of posterity.



Chimps quickly learn to "Ape" humans in almost all gestures—wearing clothes soon becomes a habit with them, "too."

Study Poliomyelitis

For here is being conducted a project that is endorsed and supported by the world's leading scientists, doctors, chemists, medical researchers. A work that has for its object the study of the causes, the transmission and the cure of the scourge of mankind—poliomyelitis, commonly called polio, and more commonly known as infantile paralysis.

Behind the huts and exhibits are a laboratory, a veritable chimpanzee hospital, carefully kept scientific data of symptoms and attempted cures and medical charts covering the lives of the chimps . . . for of all animals, the chimpanzee is closest to man, contracts man's diseases, from the common cold and sore throat to tuberculosis and infantile paralysis.

Equally important with the medical research phase, is the other fact that this "zoo" is also a breeding farm, where they are trying to increase the world's ape population.

Curious, I asked Armand Denis:

"Why is it so important to have breeding farms? If you need more

apes can't you just safari into the jungle and bring back a shipload?"

Denis smiled patiently at my ignorance, and explained:

"Unfortunately for the human race, no. The day is obviously near when the white man will have to relinquish control of the areas in Africa and Asia where these species are found. The war has taught the native that he can kill with impunity. They will continue to demand their independence, and it won't be long now when a white man won't dare to enter the jungle without a powerful and costly armed guard. If he doesn't have a guard, a small army in fact, he just won't come back out of the bush. And to catch these animals alive, you need the cooperation of the natives. The day is coming when we just won't get that cooperation.

"The tragedy of it all is that the white man will be ousted long before the natives have acquired any sense of responsibility toward the preservation and protection of wild life. Remember the many species wantonly destroyed in our own country, and how nearly the Amer-

ican buffalo came to complete destruction."

Cousin of Ex-President

The farm is a sort of married partnership: Denis, Belgian-born, Oxford educated, naturalized American, and his partner-wife, who was Leila Roosevelt, first cousin to the late, great President Teddy, second cousin to Mrs. Franklin Delano Roosevelt.

Denis began by seeking adventure—and finding it. He got his first taste when he served in the Belgian army in World War I. He got some more when he led the Denis-Roosevelt African Expedition in 1935-36, the Denis-Roosevelt Asiatic Expedition in 1939-40. More adventure came when he filmed the first motion picture ever made on Bali—"Goonagoona," and his African film, "Dark Rapture." It was an adventurous period when he directed Frank Buck's "Wild Cargo."

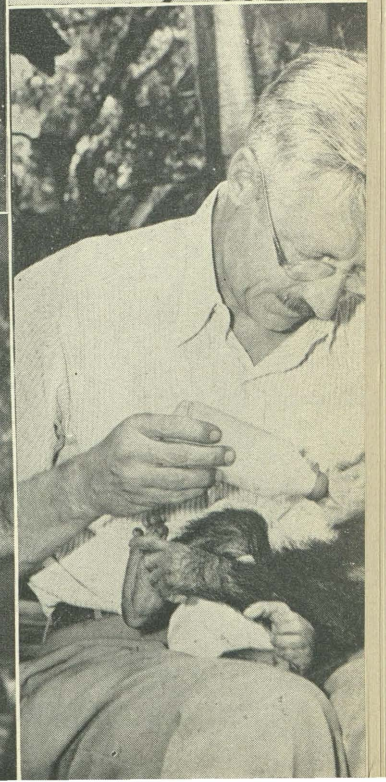
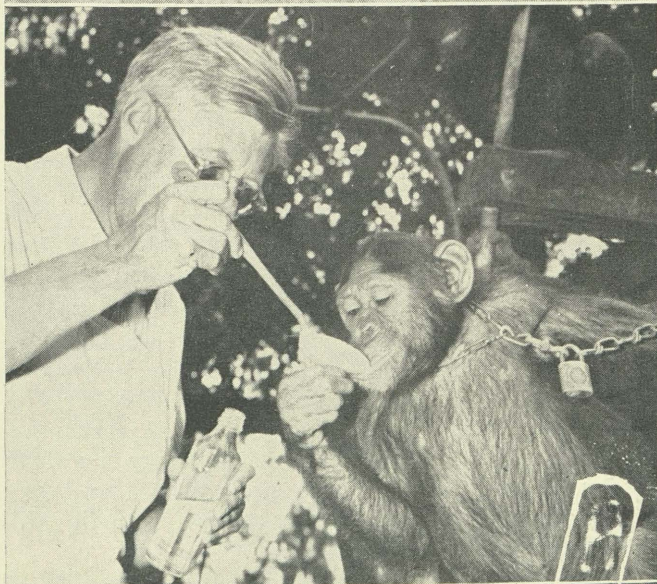
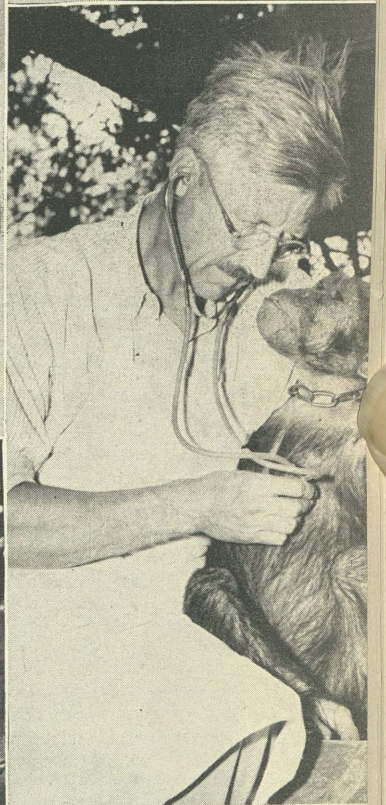
But as the years rolled along, Denis became aware that he could have adventure and live a more profitable life, too . . . profitable not to himself, but to mankind. Bringing in his importations of gorillas and Chimpanzees and monkeys had brought him in contact with scientists and medical research workers, who were using the apes as specimens of study. At last he became imbued with the slow-burning fever of the hunt for that Holy Grail of modern times . . . the battle against the dragon poliomyelitis. . . .

But let him tell it in his own words:

"The anthropoid or man-like apes are the gorilla, the chimpanzee, the orangutan and the gibbon. They are the nearest relatives to man. Zoologically, they are classified with man, and not with monkeys, with which they are too frequently confused. They are much more like man than monkeys in their anatomy and physiology.

(Continued on Page 26)

Pictures reading from top right to left by columns show a new born Chimpanzee, diapered, waiting for his first diet-balanced bottle formula. Baby Chimp on scales which weighs 4 pounds at birth. Baby chimp—ditto diaper. Chimps are very co-operative, this one has learned to be quiet when his chest and heart are examined. Chimpanzees are good patients—they take the bitter with the sweet. Armand Denis starting Dania-born chimp baby on his first balanced diet. Oral health of Chimpanzees is closely watched. Here Denis is spraying chimp's tonsils.—Above pictures taken by Ham Hamilton of the Miami Daily News.



Karakul Sheep....

NEAL CHAPLINE

Even scarcer, and infinitely more expensive, than butter, sugar and men's white shirts are M'Lady's luxurious Broadtail, Persian Lamb and Caracul fur coats. To remedy this deficiency and, incidentally, make a good living for himself, Bill Davis of Irvine, Florida, has started the only Karakul sheep ranch in the sunshine state.

They said he couldn't raise this fabulous breed of rare sheep in Florida's warm climate, but Bill Davis thought differently and proved it. Today he is the proud proprietor of the House of Bokhara ranch and owner of a healthy, fast growing herd for which Bill predicts big things in years to come. He is looking forward to a large and lucrative business supplying his own brand-name coats and accessories of Karakul origin to keep My Lady warm and make her glamorous as well.

For Bill Davis, who has been a fur man most of his professional life, his Karakul ranch is truly a labor of love. It was while he was working for a silver fox farm at San Francisco in the early 1920s that he began attending animal shows and literally fell in love with the Karakul variety of sheep. He decided then and there, some 20 years ago, that

Part of a glamorous fur coat on the hoof. These Karakul lambs must be pelted within three to five days after birth. After 21 days the fur turns to wool.



some day he would have his own flock of Karakuls.

Likewise, his choice of locale was the result of an early experience. He was stationed at Carlstrom Field, near Arcadia, Fla., in 1920 and 1921, took a liking to the Florida climate and decided to make his future home in the sunshine state when the opportunity arose.

In 1941, while still in California, he bought his first pair of Karakul sheep, the famed "fat tailed" breed of Biblical history which were first imported to this country from Russia in 1909. It was not until 1944, however, that Bill was able to couple his twin ambitions by moving his Karakul operations to the state of his choice. He selected Irvine in Marion County, Florida, because he found conditions there "ideal", the fertility of the soil making excellent forage containing all minerals needed for animal health.

Climate Improves Pelts

Nor does he find the warm climate of the sunshine state a bar to raising good sheep, but on the contrary a definite aid in developing a thinner skinned animal with finer quality pelt.

And speaking of pelts, Bill has a bone to pick with some representatives of the retail fur trade who, he says, have perpetuated the myth that Broadtail fur is from "unborn lamb", apparently in an effort to justify the high prices charged for coats of Broadtail fur—from \$1,500 to \$3,500. Occasionally, Bill says, a lamb is prematurely born or still-born, and these lambs are naturally pelted, "but never to my knowledge have I known a breeder to take a lamb from a ewe prior to its birth for pelting".

Many lambs are born normally, he continues, that are "Broadtail" quality fur and remain that way for a week. Broadtail's high prices, Bill feels, do not have to be justified through public-mis-information, because the sheer beauty of the flat, light weight fur with water wave pattern and high luster as well as its comparative scarcity, is ample justification in itself.



Before and after—Mrs. Davis displays a new-born Karakul lamb and around her neck the fur collar he might have been.

There is some confusion too in the public mind, Bill finds, regarding the different grades of fur from the Karakul sheep. In addition to the most prized Broadtail, there is Persian Lamb and Caracul. The former, coats of which range from \$400 to \$1,500, is a high luster fur with small, tightly massed individual curls. Caracul is a wavy pattern of larger looser curls than the Persian, such coats retailing from \$400 to \$1,250. Trimmings of all three are saved, carefully matched and sewn together for sale as "Caracul Paw" coats or accessories.

It is also a mystery to many that fur coats should come from sheep—wool bearing animals. When a Karakul lamb is born, Bill explains, it has true fur on its pelt which remains for approximately 21 days after which it turns quickly to wool. Pelting is usually done when the lambs are from one to three days old because the curl is tighter and the luster and sheen more brilliant than at a later age. Thus, the smaller

younger pelt is more valuable for its beauty than a larger one with looser curl and less luster.

Flock Increasing Rapidly

Davis has been greatly encouraged by his experience in Florida so far. From 25 head of sheep, including a buck, a lamb and 23 ewes, in February 1945, Bill's flock has increased to 48 now despite deletion of a number of the lambs for pelting. According to his figures, the flock can produce a 100 per cent lamb crop three times every two years. His plans call for building his present flock to a minimum of 1,000 ewes.

Karakul sheep raising is not a one one product venture that although the tanning of hides from young sheep to be made into custom designed garments, hats, pocket books, coat collars, and the like is, of course, of primary importance. What might be termed "by products" of the central objective provide a steady and not inconsiderable income to the Karakul raiser.

Such subsidiary revenue stems from sale of the Karakul wool, which is sheared twice yearly by Davis, in contrast to once a year which is standard in most other parts of the country for this breed. Additional income derives from the sale of animals to others starting ranches, sale of the meat, the milk—for which unusual health-giving qualities are claimed—and last, but by no means least from a revenue producing standpoint, fertilizer.

Although Bill Davis has a monopoly on Karakul ranching in Florida now he would welcome others to the field. All of the northern section of the state, he says, is suitable for raising this hardy breed and additional ranches could be of mutual aid in servicing flocks, matching pelts and general cooperative activity.

Top right is shown part of Bill Davis' Karakul sheep flock at his house of Bokhara ranch near Irvine, Florida. This is the only Karakul flock in the sunshine state. Middle picture:—Karakul sheep are the "fat tailed" variety of the Bible, so called because they store up food energy in their tails, much as a camel uses his hump, to be used for food later on when forage is scarce. With Davis is his charming wife and assistant, Celia. Bottom picture:—Bill Davis, with his prize herd sire, Oscar Joe. Unlike other sheep types, Karakuls are clean animals and do not assail the olfactory organs.



Kapoks in Florida

Five miles east of Clearwater, towering majestically above the Pinellas County countryside, and a mecca for thousands of tourist sightseers, stand two of Florida's mightiest and most interesting giants of the forest.

They are two magnificent kapok, or silk cotton trees—twins, almost sixty years old. They preside regally over two neighboring old homesteads of Pinellas pioneers. And during the flowering season, covered with large, magnolia-like blossoms of a deep, vivid shade of rose, they flaunt their wanton beauty upon the world as far as the eye can see them.

Sounds Like Rain

As the flowers age, they spatter to the ground with a sound like great drops of rain, to be eagerly scooped up by the throngs of visitors who line the highways to see them.

Huge pods, in which the seeds are swathed in masses of silk cotton fiber, commercially known as "kapok", are then formed. When the pods mature their valves burst like cotton bolls, and for a time the tree

seems actually smothered in glistening white thistle down. These silky fibers are very light, and may be carried long distances by the wind. Florida children, playing near the tree, thrill to the spectacle presented at this time. Unused to winter sports, they love to pretend they are weathering a northern snowstorm.

While Nature puts on one of her most flamboyant shows for this business of kapok reproduction, the trees are by no means drab during the rest of the year. After the bearing season they put forth into full, glossy, dark green leaf. Then, with their tall, naked trunks, their broad bases with great buttresses jutting out into the ground to brace them against storms, and their luxuriant crowns lifted high above the neighboring trees, they still remain king of the tropical forest.

Seeds From Brazil

The Pinellas County kapok trees have an interesting history. It is related that in 1888 seven kapok seeds were brought back from Brazil by a medical missionary, who gave them to friends in this vicinity.

Of these seeds, only two lived and matured. One was planted by Mrs. Agnes D. Hoyt, of Seven Oaks, then a museum of tropical plants. This grew into the tree on north Haines Road near the Davis Causeway, which now attracts so much attention at its blossoming time each February. It is the tree illustrated here.

Towering into the air about seventy-five feet, it has a base of approximately ten feet in diameter, and a limb spread of almost a hundred feet. A male tree, it does not produce the pod-bearing kapok fiber or seeds. Its blossoms, however, are particularly gorgeous. And, blooming as it does in the winter season, it is the tree most frequently seen and best known by visitors from other states.

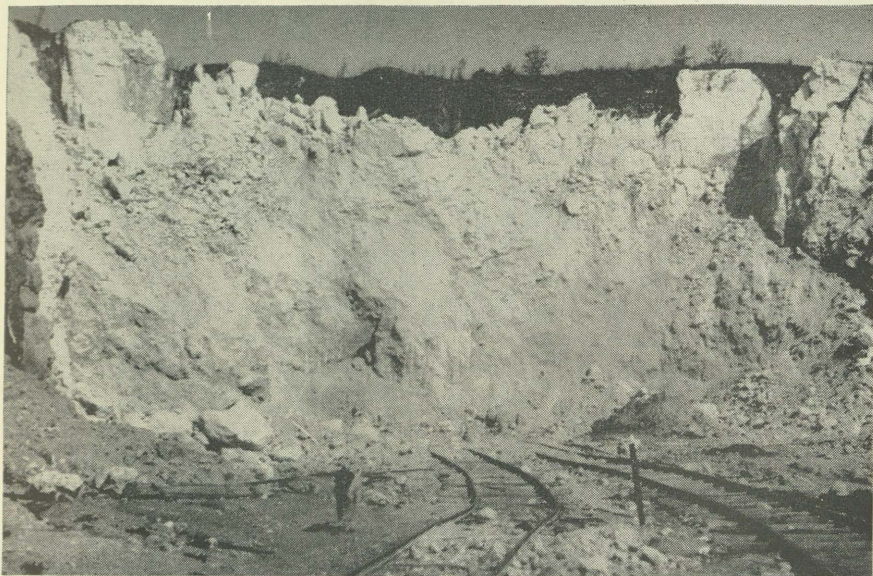
The second tree, which is even larger, grew from a seed planted by the mother of Dr. Byrd McMullen, retired Clearwater physician and one of the older living members of the famous pioneer McMullen family of Pinellas County. This tree stands on the old homestead on the Safety Harbor road. The female of the species, it blossoms in July

(Continued on Page 35)



Two views of giant Kapok tree near Clearwater in Pinellas

Florida Experiments with Limerock



obtain mechanical-analysis determinations, since it will wear on the sieves during testing, and it is entirely too soft to permit an abrasion test.

Its use in road construction in Florida has been as a material for constructing flexible bases, which are surface-treated or covered with some type of bituminous wearing surface. For this purpose the material is an excellent

At the left is a typical Florida limerock pit. Below is a close-up view of Florida limerock, which is a soft material consisting almost entirely of carbonate of lime. It has been used principally for the construction of flexible bases over which is placed some kind of bituminous surfacing

Soft local material used in experimental sections of plain cement-concrete pavement, cement stabilized base and three types of bituminous mix placed over limerock base

H. C. WEATHERS

Division Engineer of Tests, Florida
State Road Department

FLORIDA has a local roadbuilding material known as limerock or limestone. It comprises all the rock of the Eocene Age exposed in Florida, including the orbitoidal, nummulitic, miliolitic and Peninsula limestone.

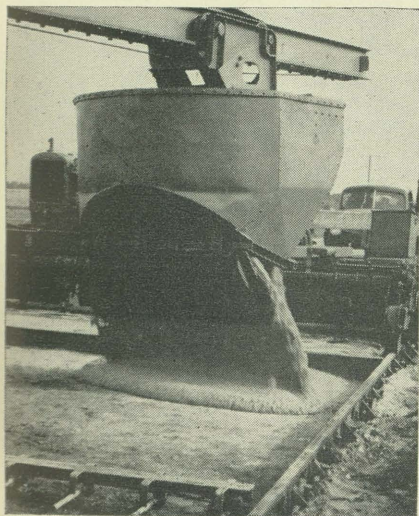
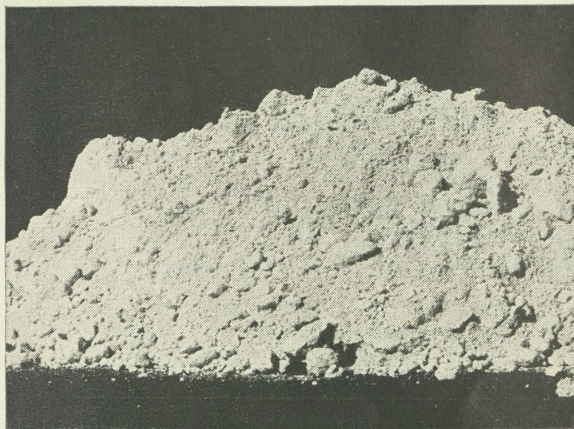
The Ocala limestone, which is most generally used in road construction, ranges in color from pure white through cream color to yellow. Its texture is commonly granular, but parts of it have been converted to hard, compact rock by the deposition of travertine or calcite in its interspaces. In some places it consists of a loosely coherent mass of foraminifera, bryozoa and other small organisms, a mass so porous that water can percolate freely through it; elsewhere it is finer-grained and more compact, although still pervious to water. In chemical composition, as in physical character, it is remarkably uniform; it consists almost entirely of carbonate of lime, and in places contains as little as 0.4 per cent of impurities.

Although this material is termed rock or stone, it is very soft compared with more generally used roadbuilding rocks. It is too soft to

one. The softness of the rock permits final finish of the base surface with a grader, cutting or shaving off small quantities until a very smooth surface is obtained.

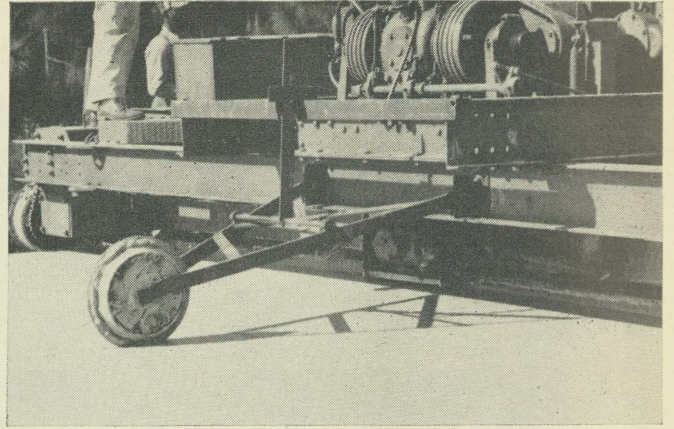
In 1944 the Florida State Road Department decided to construct an experimental project using Ocala limerock in four different pavement types and as the aggregate in limerock-cement stabilized base, to determine its usefulness in these different types under actual field traffic conditions. The experimental project is situated on U. S. Route 441 about two miles north of Gainesville.

The different types of construction in this project are as follows: (1) 4,500 lin. ft. of plain cement concrete 22 ft. wide, using various mixes and cross-sections; (2) 1,000 ft. of 6-in. limerock-cement stabi-



Limerock concrete being deposited on subgrade on section of experimental pavement

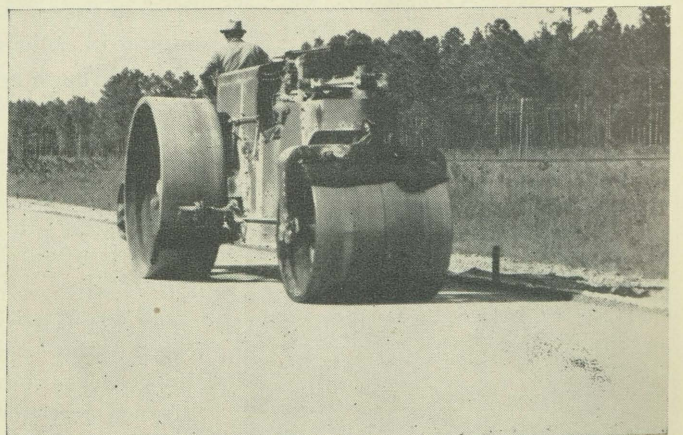
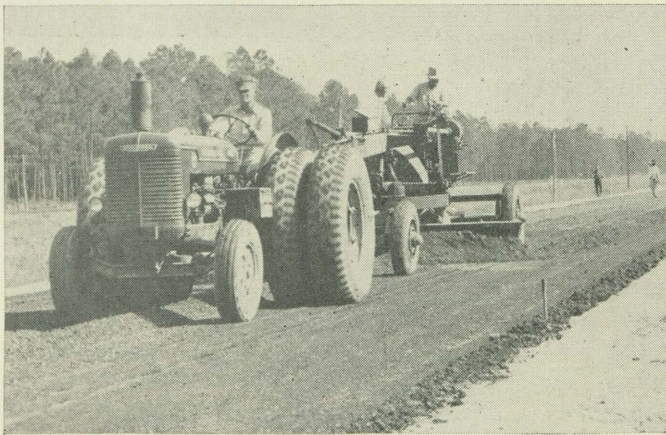
Constructing Three Types of Florida Limerock Pavement



Finishing experimental section of Florida concrete pavement constructed with limerock aggregate. Finishing machine at left is equipped with vibrator tube. Finished surface of limerock concrete is shown at the right. View illustrates method of marking longitudinal joint



Operations in construction of cement-stabilized base. At the left, cement is being placed on limerock windrow prior to mixing with travel plant. Mixed material was spread, loosened with a harrow and then compacted with a sheep's-foot roller. Shaping and rolling followed



Finishing operations on construction of bituminous sections. At the left, limerock-bituminous mixture is being shaped with tractor-drawn grader. Shaping was followed by compaction with a roller. After shaping and rolling of the surface, a seal coat was applied and sanded

lized base; (3) 3,000 ft. of 8-in. limerock base with three different types of bituminous material mixed into the upper 2 in. of the limerock, on three separate 1,000-ft. sections.

Limerock Concrete

The experimental pavement of

plain cement concrete was constructed with Ocala limerock as the aggregate portion of the mix. The 4,500 lin. ft. contained three different cross-sections, 8-6-8, 9-7-9 and 10-8-10 in., each 1,500 ft. long, with 500 ft. of each cross-section com-

posed of concrete with 5, 6 and 7 bags of cement to the cubic yard respectively (theoretical cement factors 1.25, 1.50 and 1.75).

For each cross-section and each cement factor there are 200 lin. ft. of pavement with contraction or dum-

my joints every 20 ft., and 300 lin. ft. with dummy joints every 15 ft. The variation in joint spacing was made in order to determine the proper joint spacing for limerock concrete. A $\frac{3}{4}$ -in. expansion joint was placed between the 20 and 15-ft. slabs, and also in the center of each 300-ft. section of 15-ft. slabs. Pre-formed fiber joint filler used in the expansion joints was sealed with asphaltic-cement joint filler. A special metal rack assembly, carried on the side-forms, was used to space and hold the $\frac{3}{4}$ -in. dowel-bars at the joints during concrete placement.

In an effort to determine the advantage of vibrated concrete over the conventional method of placement, a vibratory paving tube was used on this project. For a basis of comparison, the first 100 ft. of each section was placed in the conventional manner and was not vibrated. The remaining 400 ft. of each section was vibrated. Because of the highly plastic nature of the limerock concrete and the absence of coarse-aggregate particles to transmit the vibration impulses, the vibrator did not work very satisfactorily, nor did the concrete handle properly when slumps were reduced to about 1 to 2 in., which was considered desirable if any advantage was to be obtained from the use of the vibrator.

Before starting the project, numerous laboratory tests were made and mixes were designed. During construction, considerable field tests were made; and after completion of the concrete section, cores were taken from the pavement and

Compressive Strength of Cylinders and Cores and Flexural Strength of Limerock Concrete

Cement Factor	28 DAYS		90 DAYS		1 YEAR	
	Vibrated	Non-Vibrated	Vibrated	Non-Vibrated	Vibrated	Non-Vibrated
1. COMPRESSIVE STRENGTH OF CYLINDERS, POUNDS PER SQUARE INCH						
1.25.....	2,489	2,509	2,749	2,851	3,279	3,285
1.50.....	3,117	3,099	3,688	3,302	3,697	3,831
1.75.....	3,529	3,279	3,466	3,997	4,356	4,206
2. AVERAGE COMPRESSIVE STRENGTH OF CORES, POUNDS PER SQUARE INCH						
1.25.....	2,024	1,755	2,348	2,276	2,864	2,665
1.50.....	2,383	2,446	2,926	2,780	3,183	3,045
1.75.....	2,841	2,647	3,129	2,954	3,477	3,548
3. MODULUS OF RUPTURE, POUNDS PER SQUARE INCH						
1.25.....	500	431	540	509	564	498
1.50.....	529	505	564	661	570	598
1.75.....	586	531	577	578	658	513

tested at ages of 28 days, 90 days and 1 year.

The accompanying tables give, in pounds per square inch (1) the average compressive strength of 6x12-in. cylinders of the limerock concrete; (2) the average compressive strength of cores taken from the pavement, and (3) the flexural strength of the concrete with third-point loading.

Limerock-Cement Stabilized Base

The 1,000 ft. of 6-in. limerock-cement stabilized base was constructed of limerock ranging in size from $1\frac{1}{2}$ in. to dust. After numerous laboratory tests had been made along the lines of conventional soil-cement stabilization, 7 per cent by volume was determined to be the proper amount of cement to use. The limerock was windrowed in the center of the grade and the cement was spotted along the top of the windrow. The ingredients were picked up and mixed by a traveling plant mixer. Moisture determinations were made before and during mixing operations, and moisture was added when necessary.

The mixed material was spread with a grader, loosened for the full depth with a spring-tooth harrow and compacted with a sheep's-foot tamping roller. Final shaping was accomplished with the grader to remove roller marks, and the surface was rolled with a 10-ton three-wheel roller, as well as a pneumatic-tired roller. Density tests were made on the finished base, and the results were well above 95 per cent of theoretical density. After the base was 21 days old it was primed with 0.13 gal. per sq. yd. of RT-2 tar and lightly sanded. In a couple of weeks the surface was covered with an application of cutback asphalt at the rate of 0.2 gal. per sq. yd. and sanded.

Bituminous Sections

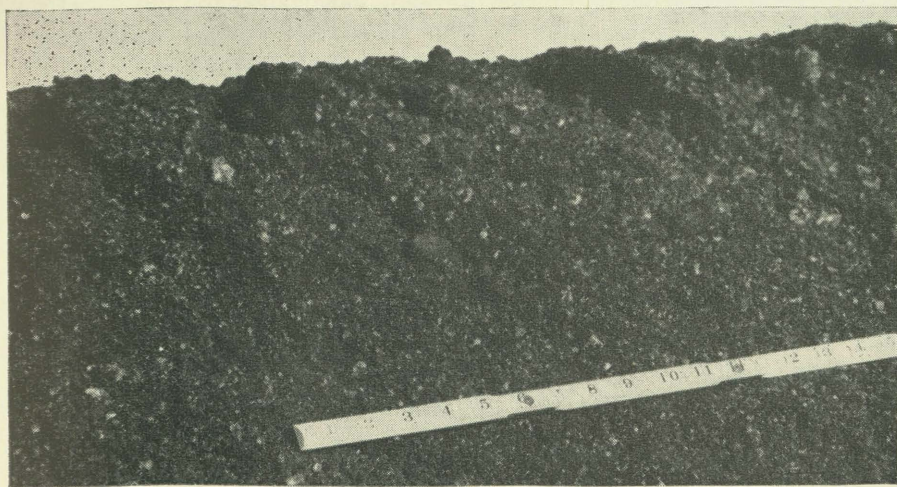
The next 3,000 ft. contained an old limerock base with a penetration-macadam wearing surface 16 ft. wide. The macadam was removed, and the limerock scarified and bladed out into trenches to make an overall width of 22 ft. New limerock was added to furnish a compacted thickness of 8 in. After the new rock had been compacted and bladed to general cross-section, the upper 2 in. was scarified and pushed into a windrow in the center of the road. The travel plant did the mixing on all three of the bituminous sections.

The first 1,000 ft. was mixed with RC-1 cutback asphalt. The quantity applied was 2.27 gal. per sq. yd.

The next 1,000 ft. was constructed in a similar manner, except that RT-6 tar was used, at the rate of 2.2 gal. per sq. yd.

The third 1,000 ft. was constructed similarly, except that a slow-breaking emulsified asphalt was used, at the rate of 2.6 gal. per sq. yd.

(Continued on Page 34)



Close-up of mixture of limerock with bituminous material. Cutback asphalt, tar and emulsified asphalt were used in bituminous sections. Mixing was done by a traveling plant



FLORIDA FOURTH ESTATE

EFFICIENCY A BASIS FOR PAY

Over in Gainesville a group of Florida educational leaders and county school superintendents agreed in a conference that salary schedules for teachers should have a relationship to individual efficiency. One hears almost daily the statement from employers that they do not object as much to high pay as they do to inefficiency.

This complaint is heard frequently concerning skilled workers and craftsmen in particular. The character of workmanship has not increased along with increased pay. In many cases it is charged that less work is being done for higher pay than formerly was done for less pay.

In the Gainesville conference of educators it was stated that if teachers were paid for quality of service they would be stimulated to maximum efficiency. Higher wages and salaries should result in greater efforts to attain efficiency.

It is significant that today we do not hear as often as in years past the phrase "an honest day's work." Nor do we hear as much emphasis being placed on pride in one's work.

If individual efficiency is adopted as a basis for increased salaries for teachers, it will be not only a good thing for the teachers, but will help toward reestablishing "an honest day's work."

We need in the new order of things not only higher wages and salaries to establish higher standards of living, but higher standards of skill and performance to make higher living standards possible.

High pay levels can not last unless there is high individual efficiency and individual contractual or bargaining responsibility.

The workman who demands high pay and deliberately fails to give full value in quality and quantity of workmanship is morally guilty of stealing.—Ocala Star-Banner.

FLORIDA'S "FURRINERS"

There are more "furriners" than Floridians in Florida, according to a release recently published in the Fort Meade Leader. That is, a majority of the 2,250,000 people now living in the land of sunshine were born in some other state or country. Naturally, the two neighboring states of Georgia and Alabama have contributed more of the "furriners" than any others, with New York and Pennsylvania coming next in order. South Carolina and Ohio are fifth and sixth, which gives the South and North three apiece among the top-notchers. The next eight in order are Illinois, North Carolina, Tennessee, Indiana, Michigan, Massachusetts, Kentucky and New Jersey. This includes eight northern states,

five in the south and one—Kentucky—usually listed as a "border state."

Some may be a little surprised by this line-up. Noting the preponderance of people from Indiana, Illinois and Ohio who have located in Winter Haven, they might get the impression that the three central states would head the list in a Florida census. But the two most populous states of the union—New York and Pennsylvania—maintain their rating among "furriners" who have adopted Florida as their home state. People from these states are most numerous on the east coast and in the St. Petersburg section. In central Florida, we presume that Ohioans, Indianans and Illinoisians (is that correct?) lead by a substantial margin, with Pennsylvanians and New Yorkers and Michiganders (we know that isn't correct!) probably following in that order.

But no matter from whence these adopted Floridians have come, we agree that, with but very few exceptions, they are fine folk and represent the "cream of the crop" in their respective states. As our population grows, these percentages may change, but we can always depend upon our two nearest neighbors—Georgia and Alabama—to furnish the lion's share of the immigrants, with nearly all the others contributing their proportionate share of the future upbuilding of the Land of Flowers.—Winter Haven Herald.

IT AIN'T HAY

People are so busy squawking about what the home boys are doing to them by way of taxation, and admittedly they're doing pretty well, that they entirely overlook the fact that the federal government puts on the real bite and then acts high and mighty about returning even a meager portion of it to the state from which it was collected.

The total federal taxes collected in Florida by the federal Internal Revenue department for the fiscal year ending June 30, 1945, amounted to \$384,764,376. Income taxes alone amounted \$309,870,880. And that folks, ain't hay.

And while the federal government was shaking down John Doe in admirable fashion, the state was collecting in taxes, fees, and licenses \$71,430,000, a neat sum in itself but mere chicken feed compared to the federal effort. Including taxes imposed by municipalities, it is probable that the total collected by the state and all its political subdivisions amount to around \$150,000,000, which is less than half the amount collected by federal sources. If you consider the large amounts paid by Florida citizens but collected outside the state it is probable that the federal government is taking around \$450,000,000 a year from the state, returning in 1945 to the state for roads, schools, board of health and miscellaneous allocations \$17,709,073.

A little simple arithmetic (Continued on Page 28)

Florida Phosphate Rock

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Phosphate Rock, mined by International in Florida is an essential ingredient in fertilizers manufactured by International and other producers of plant foods used by farmers to obtain larger yields of quality crops. To expand its production of Florida Phosphate Rock for agricultural and industrial chemical uses and also for the export market, International is constructing a new mine near Bartow. This new Noralyn Mine will be the largest, most modern phosphate mine in America and will incorporate important new metallurgical processes developed by International's engineers for the preparation of the high grade Phosphate Rock to be mined at this property.

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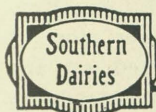
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IT HAPPENED IN FLORIDA....

Julia Rehwinkel Holland

George Washington recently was sentenced to serve 30 days in the St. Petersburg jail. Washington, who says he is no relation of the original, was found guilty of trespassing.

Harrison Kitchen, summer resident of New Smyrna Beach, was amazed when he received notice from a Miami pawnbroker that the time had expired for him to claim his watch since the watch was stolen along with \$30 when he, Mrs. Kitchen and their baby were kidnapped in Brooksville January 6. The kidnapper-robber, apparently, found Kitchen's name and address in his billfold, pawned the watch in his name, got the money and left the watch for him.

A Miami market owner, Joseph Sherzer, thought he had found the safest of hiding places for the \$85 he took from the till and placed in a paper bag under a case of meat in his cold storage room, which was fastened with an unusually big padlock and a strong iron bar. But he found he was wrong when he came to work the next morning and found some determined fellow had stolen the \$85 and \$350 worth of his best cuts — spurning hamburger and chuck.

Dr. James B. Parramore, Monroe County health officer, is sure the "meanest" thief is the one who stole his brand new garbage can from his Key West home while he was attending his mother's funeral in Jacksonville.

The president of the Miami Beach Apartment House association, Harry I. Magid, must have had a very red face when, to close a meeting on a patriotic note, he invited the landlords to join in singing the national anthem and began: "My country 'tis of thee. . . ."

Jacksonville's Mayor C. Frank Whitehead can tell you how to spend a sleepless night, even though you go to bed early. Sometime ago when the Mayor was not feeling well, his doctor prescribed pills for him—one bottle to make him sleep and one bottle to keep him awake. On a recent night when he couldn't sleep,

he decided to take sleeping pills, but he took pills out of the wrong bottle and didn't close his eyes all night.

One member of the Miami police accident prevention bureau found love amid the gory scenes he investigates. Actually Officer Richard W. Guiler's bride had two broken legs and faced a charge of reckless driving when he met her.

Jacksonville's Joe Hammond ran into legal difficulties when he tried to devise a plan so vacant lots owned by Duval County could be given to veterans desiring to build homes, but a plan was finally worked out so veterans could purchase such lots for about \$50 each and 108 available lots in the area known as Joe Hammond Park were sold to veterans on July 22.

The motor wheezed and gave up as a battered, vegetable-laden, make-shift farm truck pulled up for a stop light in downtown Jacksonville. The peppery, little old driver went into frantic, but futile action to get the motor turning over and, as a traffic cop sauntered over, he looked up and snapped testily: "None o' your bright remarks, young man. Get her rolling and she's yours — but that don't include no vegetables."

A "Siamese twin" melon, with each of the twins a good size, was exhibited at the Leesburg Watermelon Festival.

Mrs. J. H. Pratt of Jacksonville had nearly 1,000 hydrangea blossoms, spread over an area 35 feet long by 30 feet wide, at one time, coming from a single root planted 10 years ago.

Botanists were proved wrong by Mrs. Arthur Cunningham of Jacksonville. They told her apples would not grow in the Florida climate, but she has apples growing on a tree in her yard and now plans a commercial orchard.

A picturesque little old lady of 79 years, who wears proudly a sun bonnet made from a flour sack, long full skirts and old-fashioned high top shoes, charms her neighbors in the Riverside section of Jacksonville and has worked out a remarkably independent existence for herself. She lives in a brick structure that

was once an office building, raises vegetables, flowers, chickens and guineas, has 5 cats to keep her company, and crochets and works jigsaw puzzles in her spare time.

Another Jacksonville resident, who is right spry for his 87 years, is Charles T. Baxter. He grows tomatoes, corn and strawberries and one of his tomatoes this season measured 12½ inches in circumference when it was still green.

The Davis twins, Met and Clint, celebrated their 91st birthday recently. The biggest event of the day was a broadcast over Tampa Times station WDAE. Clint spent the rest of the day at his home near Lake Thonotosassa and Clint celebrated with relatives and friends at his home just off Harney Road.

The 100th birthday anniversary of the late J. I. DuBose was celebrated recently by his children at Lake Butler.

Julia Morgan, who was a teen-aged slave in the Robert Gorman family of Gadsden county's Coon Bottom community when Lincoln was elected president, reached her 100th birthday on June 15 in Tallahassee. She says the day she was freed was a great day in her life, but it wasn't exactly a memorable one for "all of my life has been memorable and a series of happy events for me."

On her recent 105th birthday, "Mother" Lucretia Hanong of West Palm Beach was honored at an open house by her grandson and granddaughter.

The June earthquake on the Pacific Coast was no surprise to Tampa's Postmaster Wall. Reading of an attack by 1000 rats June 22nd on a Coast farmer, Mr. Wall told his wife there would be an earthquake in 3 days. The big earthquake came on June 24.

Sunshine Beach, near St. Petersburg, has a phenomenon in the jetty-like sand and shell formation that has been piling up for more than a year and has reached an amazing size. It extends approximately 500 feet into the Gulf and reaches about 20 feet in width. Residents are baffled because it vanishes and reappears.

Hens in Dover near Tampa are cackling about the strange brood of a bantam hen on the farm of Mrs. Catherine Smith. Mrs. Smith discov-

(Continued on Page 25)

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County Activities and Personalities . . .

Ray Green has been elected Chairman of the Duval County Commission Board succeeding Commissioner Bob Gordon. Green took office July 1. Commissioner Tom Marshall has been chosen vice-chairman.

Carl Berg was appointed chairman of the five-man planning board created in Dade County. Other members of the board are: Mrs. T. T. Stevens; H. L. Clark, Jr., C. J. Parman, and D. Richard Mead. The new board, although without legal status, will function in an advisory capacity.

Lee County Commissioners have declared that they have discharged fully their responsibility in offering to pay a third of the cost of the County Health Unit, provided the city council and the school board contributes equal shares out of their third of the race track revenue.

Officials of the State Road Department met with the Alachua City Commissioners and the High Springs City Commission to discuss the proposed straightening and improvement of Road No. 2 between Alachua and High Springs.

Members of the Dade County Commission have been taken on a tour of installations at the Miami International Airport, and the Tamiami Airport, now under development. They were invited by the County Port Director, and accompanied on the tour by Gus E. Hausser, Airport Director.

Volusia County Commissioners have approved a tax levy for the Halifax Hospital District for 1946. The tax will be 1.35/100 mills on the dollar and will serve to pay the interest and principal on the district's bonded indebtedness.

Hillsborough County Commissioners have ordered heads of all county departments and institutions to make a complete survey of physical conditions of property in their charge. The survey will contain estimated costs of additional personnel or repair work needed.

Joe F. Hammond, longtime member of the Duval Board of County Commissioners, has been elected Second Vice President of the National Association of County Officials at the organization's annual convention at Cincinnati.

Daytona Beach expects to have a much better football field during the

coming year. The Mainland Field used by both Mainland and Seabreeze High schools is to be completely renovated by the County Commissioners. The seating capacity is to be increased from 2,700 to 3,600.

Broward County Commissioners have been asked to take steps to eliminate speed along the Wilton Manor Boulevard. The Civic Association of that place pointed out to the Commission three accidents that occurred within one week as the result of fast driving.

Activation of Duval County's newly authorized Dental clinic will be delayed until a dentist can be employed to head the division, according to Dr. L. L. Parks, County Health Officer, when reporting to the Board of County Commissioners.

The cost of operating Orange County's convict camp per convict day was \$2.66 and the cost per meal per man during that period was 14 cents, according to a report submitted to the Orange County Commissioners.

Volusia County officials have tentatively chosen three connecting buildings on the Welch Convalescent Hospital property as the new quarters to house the County Welfare Home. The buildings were formerly used as WAC barracks. Circuit Clerk Jess Mathas, representing Volusia County Commissioners, made the selection after a tour of available buildings.

Polk County Commissioners were scheduled to receive a petition calling for a Wet-Dry Election in that county during the summer months. Plans were formulated at a gathering of business and professional men at the Lakeland Yacht and Country Club.

Sarasota County Commissioners have been advised that no action has been taken yet by the State Board of Health concerning full-time Health Unit for that county. Approval had to be given by City, County and school officials. The State Board of Health has been notified that the county has worked out a method of supplying its necessary appropriation for the project.

Putnam County Commissioners have designated two banks in the county as depositories for county funds. They are The Peoples Bank of Crescent City, and the Palatka Atlantic National Bank.

Dade County Commission Chairman

Charles H. Crandon criticized action of the Junior Chamber of Commerce in asking a Grand Jury investigation of alleged insanitary conditions in that county. Crandon predicted that the jurymen would find nothing worthy of their attention. The Chairman, in a letter to the Grand Jury Foreman, said that the leaders of the "Jaysee Polio Committee permitted their zeal to warp their better judgment when they asked the investigation."

Tentative values placed on real and personal property in Charlotte County total \$6,480,479, exclusive of property exempt from taxation. The figure indicates a net increase over 1945 figures of approximately \$165,000—Assessor A. C. Jordan said.

Dade County Commission has applied to the War Department for a permit to dredge 100,000 cubic yards of fill material from Biscayne bay for use in the Rickenbacker causeway embankment. The Commission proposes to dredge the fill from an area at the northern extremity of Key Biscayne.

James A. McNabb of Panama City has been appointed Bay County Service Officer by the County Commissioners. McNabb's name was presented for consideration by all Veterans' organizations represented in the community.

Palm Beach County Commissioners will be urged by the local Chamber of Commerce to buy land on Singer Island to provide parking space and picnic grounds for the town's beach property.

Absurd Situation

The Texas statute imposing a heavy tax on commercial fishing boats from other states that fish in waters off her coast and Louisiana's move to retaliate are a sad example of what happens when states try to erect artificial economic barriers. The absurdity of the situation became all the more obvious when the Louisiana house of representatives, in approving its bill, amended it so neighboring Mississippi fishermen can dip their bait without paying the \$2,500 annual license fee for each boat and \$200 per crewman. Friendly Mississippi lets Louisiana fishermen in free.

Texas started the crazy game, and Louisiana is hitting back. Texans, rarely willing to end a fight in a draw, no doubt will take another punch. Conceivably the thing could go on ad infinitum. Who possibly could gain in the end, we don't care to guess.—Memphis Commercial Appeal.

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An index to the popularity of a proposed state-wide mosquito control program is provided by the comments of more than 50 state and federal legislators and officials who have replied to an inquiry by the Florida state press

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association. Replies were received from Governor Caldwell, five state cabinet members, both U. S. senators, four of the state's congressmen, 10 state senators and 30 state representatives. Of the entire list, only four were doubtful about whether they would support a mosquito control plan and each of these was motivated by fiscal misgivings. The remainder went unequivocally on record as in favor of a practicable plan to reduce the pesky little insects.

In doing so, the general pattern set was for the man queried to say yes, he was in favor of reducing mosquitoes and would be glad to support legislation providing same. Although most of the replies were cast in this mold several ideas worthy of special mention were advanced.

J. M. Lee, state comptroller, said he was in favor of attracting tourists and new residents but: "If we ever control the mosquito we won't have to advertise our state to bring people in—they will just naturally gravitate this way." The same sentiments were echoed by Warren Sanchez, state senator from Live Oak: "I was very much behind the advertising program which we passed at the 1945 session of the legislature, yet it appears unreasonable to me that we will spend a half million dollars a year to invite people to come to Florida, only to have them pestered by mosquitoes . . . and have them leave."

Check, says Alex McWilliam, representative from Vero Beach, adding: "Since the state of Florida is now spending large amounts of money in advertising to induce people from all of the country to come to Florida and cast their lot with us, it seems reasonable that the state also should interest itself in the one blight which is so destructive to our future development."

Congressman Dwight Rogers, whose record has established that he believes in action instead of talk, took the matter of mosquito control up with the federal bureau of entomology and plant quarantine in Washington. He anticipates a full and complete report from the bureau and promised: "I shall be glad to do what I can to obtain a federal appropriation to assist in pest mosquito control in areas adjacent to government controlled waterways in Florida." This, incidentally, would include Fort Myers and all other towns on both sides of the Caloosahatchee.

Mention of federal aid made several state representatives kick up their heels. Said James G. Horrell of Orlando: "As to federal government participation in such a program, I am so disgusted with the increasing encroachment of Washington upon the prerogatives of the states that I look with great suspicion upon any offers of assistance from that source . . . Believe me I'd rather have mosquitoes than federal domination. You can always slap mosquitoes but these federal boys are not so easy to handle."

R. O. Morrow was a little less skittish about taking Washington money: "However if it is practical to seek federal aid, I am not opposed to it as a last resort."

Welcoming federal aid and participation was State Senator Wallace E. Sturgis of Ocala: "It is quite possible that there may be co-ordination between the two branches in undertaking to remedy some of this trouble."

"Why could not your problem be approached through the state board of health?" asked Wilson Carraway of Tallahassee. But, "Let it be purely a pest and commercial project—no connection with any health project should be mentioned," declared W. B. Moon of Crystal River. And from Lisle W. Smith of Haines City: "I think that in a lot of respects the state board of health is very inefficient and I would like to see their organization overhauled and reorganized."

From these comments it is obvious that the officials of the state of Florida are agreed upon the merit of getting rid of the mosquito. But they are a long way from agreement upon how it will be done.—Ft. Myers News-Press.

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IT HAPPENED IN FLORIDA

(Continued from Page 20)

ered a nest of quail eggs just ahead of a power mower cutting a field of grass and gave the eggs to her bantam to hatch. The little birds are quite content with their foster mother, but Mrs. Smith intends to free them when they are a little older.

Twenty-three cows, escaping from their corral, created a series of bovine traffic hazards on a busy Miami street and gave residents of a trailer camp in the neighborhood a collective nightmare.

The peafowl flock of former Mayor Eugene L. Pearce of Clearwater, in prewar days, believed to be the largest flock of peafowl in the world, has dwindled from 532 birds to 75. Cars have killed many of them and Pearce is selling others and not replacing them because, at 71, he is getting too old to take care of them. A pair of the beautiful birds was sold recently for \$125.

Have you lost a door knob? Ross Allen has a 5-foot yellow chicken snake at his Reptile Institute near Ocala with a bulge, which upon examination, proved to be a door knob with the stem still on it. The snake doesn't seem to be too uncomfortable, but will no doubt "give up the ghost" in a few weeks when he finds that door knobs do not digest like chicken eggs.

Winter Haven fishing is something to brag about! A guide, Dickie Rowe, was directing a boat through a nearby canal when a 1½-pound big mouth bass jumped into the boat.

The snake business is thriving in Gulf county and two women are numbered among the snake catchers. On one Tuesday night, 169 snakes were shipped out and this was only the catch for the first part of the week.

An unscheduled arrival of the stork to a mother sloth occurred shortly after an International Air Freight company plane took off from Barranquilla, Colombia, with 50 sloths en route to Egypt, Massachusetts, via West Palm Beach. The tiny sloth was apparently as healthy as if it had been born in a jungle setting, but buying 150 pounds of bananas, needed to feed the sloths, in West Palm Beach on the Fourth of July was quite a problem for air line officials.

Mrs. Erdin McCollum, 21, of St.

Petersburg, who learned to fly at 17, fibbed about her age to get in the air wacs at 18, and flew her plane to her wedding in Greensboro, N. C., on July 4, left in her plane with only her 3-months-old springer spaniel "Flaps" for company to join her husband in Kingston, Jamaica.

Shark Industries, Inc., has awarded contract for a \$28,000 processing plant at Salerno with executive offices in Stuart. This plant will be the third of its kind in the United States and will furnish vitamin content from shark oil for milk for the Borden Company.

If you would like to see counterparts of the "gingham dog and calico cat" immortalized by Eugene Field, you should see the rag dolls of Mrs. Hugh A. Serviss of St. Petersburg. Mrs. Serviss has built up a nice business making dolls for gift shops. She makes dolls of almost any kind a little girl could dream of, including the "Mammy," "Blonde-brunet," and the "Wakie-sleepie."

Ten-year-old Jimmy Beahn had an experience on a recent night that would have frightened a much older person. He went to sleep during a movie and waked up in the empty moviehouse at 2 o'clock in the morning.

Joel Ellis Grine, not yet four, of Miami Beach excels at high diving

board back flips and swimming underwater, but he can't understand what is so unusual about that. Felix Van Newman is his trainer and when a news photographer wanted to take Joel's picture last month, he said very seriously: "Van's a better swimmer than me, why don't you take his picture instead?"

After spending five and a half years in the home of Mr. and Mrs. J. T. Ransom of St. Petersburg, 11-

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year-old child refugee Margaret Troup has left to join her parents in Oban, Argyll, Scotland.

Mrs. A. P. Tuttle of Jacksonville in six years has completed eight lines of her genealogy, collected 14 old wills, uncovered six different coats of arms she is entitled to display, discovered many interesting ancestors and amassed enough notes to publish a book "Old Southern Families," which is due this fall.

Another Jacksonville resident, A. Vernon Coale, makes the discovery and painting of coats of arms his profession. He must have proof that a person requesting copy of a family crest has a definite right to it before he will make the copy. Occasionally he makes a new coat of

arms for a family, but copies the old styles faithfully.

One of the most valued possessions of the Payne family of Jacksonville is a slave abstract dated 1853, which belonged to Thomas Payne, father of M. L. Payne, who now owns the abstract. Believed to be one of the few abstracts for slaves still in existence, the faded blue paper gives the history of Old April and Judy and their son, Young April, from 1799 until 1853.

Gray-haired, robust Marian "Tugboat Annie" McKaye of Miami, whose job during the past four years has been boss of a tug crew plying the Florida waterways, has left for a cruise to New York and a try at a movie role as her noted fiction namesake. Miss McKaye was born on a showboat on the Mississippi river 50 years ago, says she "played everything but a windowsill" on showboat stages "off and on" for 18 years, and began her tugboat career as a cook four years ago.

On a June day the newsboy at the Jacksonville bus station yelled "Hot weather to continue!" Perspiring pedestrians walked past, wiping wet brows, and beach buses were pulling out jammed with steaming passengers just as a young woman wearing a fur coat came out of the bus station, paused a moment to look in both directions, and headed for the shopping center of town.

Gus Hurme of Miami finished a 20-day diet of water, nothing but water, last month. He started this to cure his rheumatism and he says his rheumatism is much better. He says he first tried his water diet in 1921 when he cured a stubborn seige of eczema with a 28-day water diet.

The Bay Pines veterans facility employes proved ingenious when repairs became necessary at the hospital laundry and they found it impossible to have the laundry done

temporarily in any of the local commercial laundries. They just disconnected the laundry boiler and connected one of the Seaboard railway's engines.

Alvin H. Bush of Tampa waited patiently for more than a week for repairs to be finished on his car, but his car was back in the garage for repairs less than 10 minutes after he had left with it. As he drove merrily out of the garage and headed for home, he collided with a truck whose driver signalled to make a left turn and suddenly decided to turn right.

"Dania Monkey Farm"

(Continued from Page 11)

"In the chimpanzee every organ of man has its counterpart, their brain especially in its general development and in the complexity of its cortex, the seat of what may be loosely termed 'mental development', approximates startlingly the brain of man.

"And unlike the lower animals and even the monkeys, they appear susceptible to the great majority of diseases which affect man. As an illustration, they share with man the susceptibility to the common cold and they contract infantile paralysis in the mysterious and apparently spontaneous way in which this terrible disease is transmitted from man to man. It is very doubtful whether this is true of any other animal."

Reared Like Babies

All this time, Denis was holding in his lap as though it were a child, his favorite Oona, only dwarf chimpanzee in the country. She had her arms around his neck, and once in a while she would snuggle up to him and whisper ape-talk in his ear, for all the world like a human baby wanting attention. . . .

And indeed many of the Denis-Roosevelt chimps are reared exactly as human infants are reared. They are cradled and bottle-fed and since many of them are raised on the wide verandah of the Denis bungalow,

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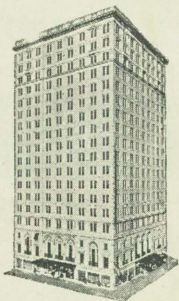
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they are diapered. They are dieted, lectured and spanked, and their reactions are those of human infants. They are carefully tended, shielded against cold, and when they sprout their first tooth the Denis family find it as important as you did when Junior's first "biter" shoved up through his tender gums.

Denis went on:

"And so, if we can't get enough apes from the jungle to aid man's research, we will have to rear them ourselves. And that's what we are trying to do here, along with our other work.

"Nor is it an easy task. The apes are of such slow growth and such slow reproduction that it would be many years, a period of time equivalent to several human generations, before any breeding colonies could grow to a point where animals could be spared for experimentation.

Balance Diets

"In the meantime, while we are trying to build up the anthropoid ape population, there is infinitely much to be learned from the attempt to breed them and raise the animals under the best possible conditions of health and hygiene and to protect them from the same diseases that threaten us. Our chief work now is in the study of better nutrition, the vital factors affecting growth and well being, such as vitamins, sunshine, diet balance, and the prevention of disease.

"Besides the study of infantile paralysis—and our helplessness in combating that disease is largely due to the fact that in the past it has been impossible to experiment systematically upon its transmission—chimpanzees make it possible for us to study other diseases, like tuberculosis, various forms of pneumonia, the various organisms that cause malaria and sleeping sickness, and to carry on cancer research.

"Then, too, their much higher resistance to certain tropical diseases to which they are exposed in their

countries of origin, is of particular interest, because tropical diseases are likely to be, as a consequence of the war, a matter of primary importance to medical researchers in the United States. And it is hoped that a study of the antibodies believed to be present in the bloodstream of the apes may yield the key to immunization against some of man's widespread scourges."

On the Denis-Roosevelt farm there are no million dollar buildings, no fancy gadgets. Everything is severely practical, and it isn't long before the visitor feels that here the ultimate and glowing goal is never long out of sight.

Nor has the job of creating this foundation been one of pure adventure and fun. Behind it are years of toil in mud and rain and slush and heat and bugs and danger and disease, deep in the jungles of Asia and Africa. . . .

Heartbreak, too, that would have finished off the ambitions of lesser souls that Armand Denis and Leila Roosevelt Denis. . . .

For instance, there was the time, eight months after Pearl Harbor, when Denis was in Africa leading an expedition after gorillas. Fourteen months of gruelling labor and Denis had captured 50 specimens to be brought to the United States. Of the 50, he managed to get 38 of the best down to the coast, where they camped and awaited the ship that was to meet them and carry the

safari's scientific treasure and its personnel back to the United States. They waited, tending the huge beasts, and waited some more. Then word came—fateful word: their ship had been sunk by a German torpedo. And while they waited, the 14 months of labor and expense and danger went for nought . . . the surviving gorillas became victims of an epidemic, and died.

(Continued on Page 28)

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"Dania Monkey Farm"

(Continued from Page 27)

Still another soul-shattering tragedy was survived by this dauntless couple:

The Denis-Roosevelt expedition tried it again in 1942. Another year of labor and expense and they had gathered scores of valuable animals, hundreds of specimens of a scientific nature, thousands of feet of motion picture film that took long jungle-months to get, tens of thousands of words describing the results of their research, all of it representing what Armand Denis calls the toughest expedition he had ever led. And this time they got it all aboard ship.

In order to be on the job when

the ship arrived, with everything prepared for the health-guarding reception of the animals, Denis hitchhiked on army planes from Africa to Brazil to New York. And there he again waited—in vain. For his ship and all his work and all his films and animals went to the bottom of the Atlantic . . . torpedoed.

But Armand and Leila took it in stride.

And as this is being written, Armand is in New York getting his gear together for another safari . . . another Denis-Roosevelt expedition is outfitting . . . they'll soon be in Africa—and a year from now, perhaps two years from now, they'll be heading back home with their prizes, this time with no Nazi torpedoes to delay their holy work.

Florida Fourth Estate

(Continued from Page 18)

leads to the very obvious conclusion that Florida is doing far better by the federal government than federal government is doing by Florida. It wouldn't be so bad if the various and sundry bureaus, which fatten on the federal take weren't so horsey about chiselling into state control any time it gives the state some of its own money.

Of course, the federal government collected more money in 1945 than in normal years but about the same ratio will prevail. You can rest assured that the federal government is doing all right by itself at any time.

But any time this or any other state gets any appropriation from federal sources, it comes all wrapped up with rules and regulations, which vest the control in a Washington bureau rather, than in the duly elected officers of the state.

You lose even if you win.—Palatka Daily News.

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WHY NOT SPEND YOUR VACATION

By STEPHEN TRUMBULL
Herald Staff Writer

Floridians in increasing numbers are discovering a new and amazing vacationland this summer—their own state of Florida.

Dade county license plates are attached to cars passing through the beauties of the Ocala National Forest, and Duval plates are becoming familiar in the Florida keys.

People who have lived in Florida all of their lives are discovering that there are great slabs of the state they haven't seen. And they're out to do something about it.

The beach and hotel comfort lovers among the year-arounders are finding \$3 to \$5 a day accommodations in the coastal resort centers where the winter visitors paid \$25, when they could get in. Coastal fishing addicts are journeying inland to give the fresh water fish a whirl. Inland fishing addicts are moving out to the coast to try their hands on the big ones.

The Florida highway trek of the home folks started manifesting itself in early May, the closing date of the tourist rush despite all of those "Stay Through May" campaigns. It's been growing ever since.

Some of these "See Florida First" people did it this year out of grim necessity. They just didn't figure that the old pre-war jalopy was good for a longer trip.

And many of these are now so delighted with what they found that they say they'll do it all over again next year, and maybe the year after that.

Never-Ending Wonders

For those who know only the Florida that lies south of Lake Okeechobee, the central and northern part of the state is a land of never-ending wonder. It's the "Old South," the land of Spanish moss, magnolias, big timber, clear streams and springs, old towns and old houses.

It's true that in some of these areas, particularly along the coast, there's a mosquito problem that arrives with darkness. But the same is true at times in your Miami back yard. It's also true in the resorts of states as distant as Michigan and Wisconsin—traditional summer vacation paradises. Vacationers even swat 'em in Canada and Alaska.

They can't stop the fun-seeking Floridian.

There's two schools of thought on this Florida summer vacation business. Some folks just set out with a tank of gas and a road map and trust to luck. The other school plans it all in advance. It's hard to tell who has the most fun.

For those who plan ahead here are some suggestions based on the roving assignment that takes this writer over approximately 1,000 miles of Florida highways each month.

This doesn't purport to be the complete Florida tourist guide. Space forbids. It's just a smattering of what the salesmen term "leads."

* * *

Gateway To Nature

U. S. 19, the west coastal highway leading north from the St. Petersburg to Tarpon Springs resort area, is the

gateway to one of the least spoiled sections of this big, vari-scened state.

Take your fishing gear along, all of it. And if you can beg, borrow or steal an outboard motor—one that actually works—take that too. Rivers, spring-fed and fish-filled, lead down to the gulf from many spots along this highway. Skiffs can be rented all along the line at nominal prices.

Homosassa Springs, the old town of Homosassa itself, four miles off the highway there, or the Hall River lodge, down a woods road a few miles north, are but a few of the potential starting points for river trips. Crystal River and Yankeetown are additional possibilities.

Fresh-water fishing addicts—and most Floridians are—may pause at spots like these for the entire vacation. Others will want to push on for history

(Continued on Page 30)

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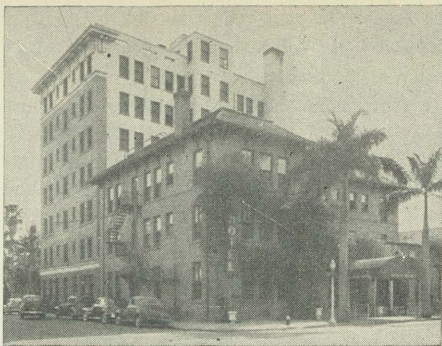
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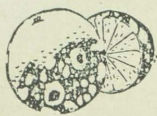
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For those who hanker for inland scenery at this point, Florida Highway 13 leads east and north to Gainesville. It's a pretty old university town with good hotels and good restaurants, and a junction point for highways leading to still other fascinating Florida scenes.

* * *

Unpublicized Beauty

The Ocala National Forest lies to the south and east, with thousands of acres of unpublicized beauty, places like Juniper Springs, Silver Glenn Springs, and other settings as novel as the more advertised and nationally known Silver Springs nearby. Florida Highway 500, out of Ocala, leads directly across this forest.

There are dozens of worthwhile stopping places in this national forest. It furnishes something of a preview of what South Florida will be able to offer its visitors and year-arounders when the Everglades National Park becomes a reality.

The homeward trek for the South

Florida resident presents a problem. There are just too many good possibilities. U. S. 441 leads south through some of them, Mount Dora, Apopka, and some other black bass fishing spots that will be difficult for the angler to pass.

This town of Apopka, in addition to being a thoroughly delightful community for the vacationer seeking actual rest, still holds the world's record for small mouth black bass. There are dozens of lakes, large and small, within an hour's drive of the place. Skiffs are available at most of them.

Take U. S. 17, through DeLand, and the same problem arises. Talk to the home folks in any of these places and it will take the remainder of the summer to try out all of the suggested out-
ing spots.

The old bus may be pointed over toward U. S. 1 to avoid such temptation, and there will be temptations to loiter at such places as New Smyrna Beach, Coronado Beach, Melbourne Beach and dozens of other sand and ocean combines on the way home.

Twenty or 30 trips like this, and a fellow will just be getting started at the business of seeing the whoppin' big chunk of land, rivers, oceans and lakes that is the state of Florida.

'STONE HOUSES' FROM PALM LATEST WRINKLE

By SAM MASE
Times Staff Writer

New Port Richey—Building material shortages are no obstacles to C. L. Baker, Port Richey stone mason. He has begun building "stone houses" from Florida native cabbage palm.

He saws the palm trunks into eight-inch lengths, which he uses in place of stones. When these are cemented into place, he covers the exterior of the building with cement, cuts grooves around each log, fills these in with black cement—and there is the "stone house." Variation in the size of logs makes the rock-like effect realistic.

Mr. Baker, who says he is pioneering in use of palm logs for this type of work, is working on his first synthetic stone house. The house will contain four apartments of one room each and is being constructed for S. O. August, New Port Richey.

Palm wood is excellent for durability, Mr. Baker explained. It is commonly used for piling, he said, because it will not shrink nor swell, even when soaked in water and dried. He uses only the base of the trunk—the top is too soft.—Tampa Daily Times.

MAYAN INDIANS LIVED IN PINELLAS

"Pinellas peninsula is the healthiest spot on earth," Dr. W. C. Van Bibber, Baltimore physician, told the American Medical association at New Orleans. "Those who have surveyed the entire state and have personally investigated this sub-peninsula think that it offers the best climate in Florida," he said. This was in the year 1885.

From the first chapter, called "From History, Legend and Folklore," of the book "Pinellas Resources," written, edited, printed and bound by the school system of Pinellas county and distributed to the schools of the county, comes this description of how the incomparable climate we and our winter visitors enjoy, first came to the attention of large numbers of people.

THE BOOK BEGINS by digging deep into prehistoric times of which Pinellas county has such a rich heritage. Even today, the book tells, Indian mounds are still yielding up rich treasures, telling how the earliest known inhabitants of this "Sublime Land" lived and died.

In 1900, Dr. Frank Hamilton Cushing explored the huge mound of the Stafford estate near Tarpon Springs and Anclote. "The plummets, pendants and other ornamental and ceremonial objects of stone I found were among the best products of the aboriginal lapidary's art I have ever seen," he wrote.

Dr. Cushing maintains that these mound builders settled on the coral reefs, grew, prospered and spread out, some north, where they influenced the mound builders of the middlewestern and southwestern states, some south where they began the mighty empire of the Mayas in Yucatan.

WHILE MANY MOUNDS were destroyed by the early settlers for road building materials since the mounds were built of shells, many are still in existence. Most notable is the one on Weedon's Island in Tampa bay, explored in 1923-24 by the Smithsonian Institute. Another interesting one is at Mound Park hospital in St. Petersburg.

Passing to more modern times, the story of Dr. Odet Phillippi, first white

settler in Pinellas, is told in considerable detail. Dr. Phillippi, friend of Napoleon and a surgeon in the Bonaparte navy, arrived in what is now Safety Harbor in 1823 aboard his own ship, the Mey. He had come to the new world as a prisoner of the British after the battle of Trafalgar which broke the power of the French fleet. After two years imprisonment in the Bahamas he was released and went to Charleston where he made a fortune and promptly lost most of it.

With what money he had left he purchased a ship and sailed with his second wife, his four little girls and 100 negro slaves, to Florida. First settling in the Indian River district, the family escaped when Indians destroyed their plantation and came to Safety Harbor, then called Espiritu Santo bay. There Dr. Phillippi set out the first citrus groves in Pinellas and there he died shortly after the end of the Civil War.

COMPARED to modern standards, pioneer life in Pinellas was hard and filled with toil and hardship. Yet such was the bounty of Nature and climate that early settlers conceived themselves living in luxury.

The woods teemed with game, black bear, deer and all matter of game animals were easily shot for food. Surrounding waters yielded a rich harvest of fish. It is said that Aunt Mary Turner caught fish in her apron when they were running in schools near the shore.

There were no roads, no modern transportation. A journey from Largo to Dunedin and back took all day by ox-cart. St. Petersburg was a fishing village with few houses, Clearwater had a fort, a post office and not much else. Pioneers lived in the traditional manner, growing their own food, making

their own clothes, building their own log cabins. Cotton was the first crop in Pinellas.

THE POPULATION grew slowly; the first citrus groves began sending Florida oranges and grapefruit to New York; the railroads came. In 1911, after a long and bitter legislative battle, the peninsula was taken from Hillsborough county and Pinellas county was born. Census of 1910 showed 13,000 people in the county. Today, the population is around 130,000, a ten-fold growth in 35 years.

(This is one of a series of articles on "Pinellas Resources," a book telling the story of Pinellas county, its people, its natural resources, its growth, written and printed by Pinellas County School System.)—St. Petersburg Times.

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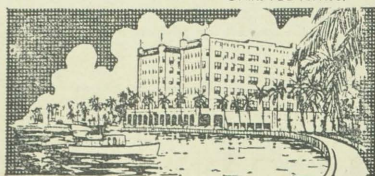
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HYDROPONICS

Hydroponics is a fancy word for soil-less farming. Experts tell us that if you use a water-tight box four feet long by 18 inches wide, you can raise all the tomatoes a family can eat. With tomatoes selling for a high price, there's money in that kind of gardening.

Just think of it! One acre of hydroponic growing surface will produce as much as 20 acres of the finest soil and you can grow anything all the time, all together.

Roger Greene, writing for AP News-features from Miami says that hydroponically all sorts of things that don't normally grow in Florida soil can be raised with much success.

All that's needed is a double boiler type growing tank. In the lower section one pours a chemical solution and in the upper layers of sawdust, excelsior and wood shavings are put. The seeds

are put in and wet down with the chemical solution. And that's the garden. And what chemicals are used? Well they wouldn't mean much to the average person, but here's the list: nitrogen, potassium, calcium, phosphorus, magnesium, iodine, carbon, sulphur, iron, manganese, boron, copper and zinc.

The story is told of one Miami grower who is making a good income off his hydroponic farm. He has a plot of land 100 by 110. He has 13 hydroponic beds, each of which grow 200 tomato plants. Each plant produces an average of 15 pounds of No. 1 tomatoes which have been bringing a retail price of 24 cents a pound.

At least two crops can be planted and harvested with no strain, so the annual gross income of the quarter-acre of backyard garden is about \$26,000.

Soil-less gardening has been going on for some time, particularly on lonely outposts where it has been difficult to raise fresh vegetables.

It was pushed in Miami at the Army Air Force Hospitals at Coral Gables where an officer sought to interest many listless patients; fighting men back from the wars, who needed some sort of release from tension. The idea caught on, and the men showed the keenest interest. Then it was taken up commercially. The plan should be received with enthusiasm in places where fertile land is at a premium, particularly in Europe, where people farm small plots and find it difficult to raise sufficient sustenance. A chemical garden would be a boon where rocky, barren soil constitutes a major problem.—St. Augustine Record.

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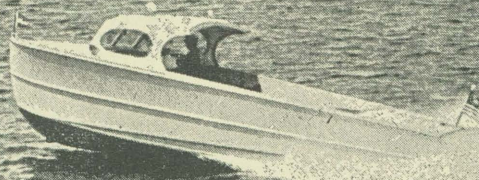
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MIAMI TEXTILE DESIGNS

By EILEEN BRYNE
Miami Herald Fashion Editor

This September, one exclusive store in each of the nation's principal cities will begin distributing stunning upholstery and drapery fabrics designed and screen-printed in Miami.

These new modern textile designs are the creation of George Farkas, internationally famous Miami Beach industrial designer who has just been awarded a prize in the original fabric design competition sponsored by the Museum of Modern Art.

"If you can't find what you want, make it yourself," is, in effect, the operating slogan on which George Farkas has built his successful career.

When he can't find the exact lamps, pictures, floor coverings, or furniture he wants to harmonize with particular residential or industrial interiors, he has them made to order from his own designs.

CREATES 50 DESIGNS

The new textile design enterprise is the outgrowth of Farkas' difficulty in finding upholstery and drapery fabrics that blend with the light, colorful, warm atmosphere of tropical settings. In order to meet that need, the firm at first created individual hand-painted textile designs. This is obviously impracticable on a large scale basis, so, in order to speed up production and accept new commissions, Farkas decided to create 50 textile designs that would lend themselves to any tropical interior and have them printed ready for use.

PROCESS PATENTED

The new upholstery and drapery designs are printed on chintz, cretonne, linen and cotton fabrics which the firm buys from textile manufacturers as "gray goods." Farkas' designs are screen-printed on the cloth by a special patented process in a local plant that has just been opened by Dana Gibson Nobel.

Each of the new designs will be available in six predominating colors, including charcoal gray, red, char-treuse, brown, blue, and green. The dyes used are color fast and washable and the fabrics probably will retail from \$8.95 to \$12.95 a yard, depending on the design and the background fabric.

The 50 textile prints are all different, but each has a distinctive tone suggestive of Florida and outdoor living.

Farkas gets his inspirations from any and everything—including his own initial seal ring and the sidewalks in Rio. He carries a sketch pad nearly

everywhere he goes, but paper napkins, backs of unmailed letters, even his own shirt cuffs frequently serve to record the original design idea.

Tropical fish, seaweed, shells, and waving sea grass are used for many cool-looking underwater motifs.

George Farkas has been in the United States since 1939 and has lived in Miami Beach most of that time. He was born in Budapest, Hungary, and after studying art and industrial design, had his own firm in Berlin, Paris and London.

Although he has helped make living more beautiful and gracious in numerous homes here and abroad, Farkas lives in a rented apartment. Building restrictions during the war have delayed the construction of his own model house in which he hopes to incorporate all his own ideas of what a home should be. All of which goes to prove there must be some truth in that old saw that a tailor's children are threadbare and a shoemaker's son never has shoes!—The Miami Herald.

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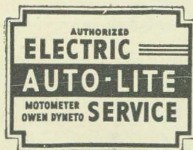
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Limerock

(Continued from Page 17)

All the mixes were spread with a grader and compacted with a 10-ton three-wheel roller. After final shaping and compaction, a seal of RC-1 cutback was applied at the rate of 0.2 gal. per sq. yd. and sanded.

Construction Costs

The limerock concrete was let to contract. Contract unit-prices per square yard for the various sections were as follows:

8-8-IN. CROSS-SECTION	
1.25 cement factor.....	\$2.02
1.50 cement factor.....	2.21
1.75 cement factor.....	2.31
9-7-9-IN. CROSS-SECTION	
1.25 cement factor.....	\$2.28
1.50 cement factor.....	2.38
1.75 cement factor.....	2.50
10-8-10-IN. CROSS-SECTION	
1.25 cement factor.....	\$2.45
1.50 cement factor.....	2.57
1.75 cement factor.....	2.75

The limerock-cement stabilized base section and the three bituminous sections were constructed by state forces with rental equipment and operators.

Costs per square yard were as follows:

Limerock-cement stabilized base.....	\$1.137
Surfacing	0.165
Total	\$1.302
2-in. limerock-cutback surface.....	\$0.917
Surfacing (seal).....	0.089
Total	\$1.006
2-in. limerock-tar surface.....	\$0.766
Surfacing (seal).....	0.113
Total	\$0.879
2-in. limerock-emulsified asphalt surface	\$0.507
Surfacing (seal).....	0.068
Total	\$0.575

The costs for the three bituminous sections represent construction costs beginning with the finished limerock base. An existing base was widened, and new rock added to bring the thickness to 8 in. Since cost records were not available on the old base, the costs as given include preparation of the surface rock, mixing,

spreading, compacting and sand-bituminous seal.

This project is now about 1½ years old. All the sections are in very good condition except the tar section, which has developed numerous surface cracks and will probably have to be covered with a surface treatment very soon.

The concrete section has developed one surface crack; but otherwise, except for irregularities left in the surface during construction, it is in very good condition.

GOOD APPOINTMENTS

Following out the recommendations of the Citizens Advisory Committee, Governor Caldwell has named six members of the Florida Citrus Commission to succeed members whose terms expired on June 1. Reappointed were: W. L. Storey of Winter Garden, Jeff Flake of Wauchula and L. S. Andrews, Jr., of Cocoa. New members are J. B. Prevatt of Tavares who succeeds A. S. Herlong of Leesburg in District No. 2; John A. Snively, Jr., of Winter Haven who succeeds W. L. Storey as a grower member from the state at large, while Storey is transferred from that position to member from District No. 4; R. A. Fender of Orlando was appointed shipper member from the state at large to succeed Charles A. Stewart of Lakeland.

All of the appointees are well known growers and shippers of the state; all have long been intimately connected with the industry and all have a high standing among their fellow growers and shippers. The holdover members are: J. J. Schuman, Vero Beach; Rollic Tillman, Lake Wales; Latt Maxcy, Frostproof; C. C. Commander, of Tampa; and J. J. Taylor, of Ocala. Mr. Taylor, however, has tendered his resignation and another new member must

be appointed by the Governor to fill that vacancy. Should the Governor show as good judgment in making that selection as he did in following the recommendation of the Citizens Advisory Committee, the new Citrus Commission will be fully as representative of the industry as the one which has so ably served the growers and shippers of the state in the past.

The Florida Citrus Commission has been of inestimable value to the citrus growers of Florida; has inaugurated many new projects and faithfully performed what has frequently been a thankless task. The Commission as now constituted may be expected to continue this service to growers with the same diligence and the same high purpose which has characterized the Commission since its first inception.—Citrus Industry (Tampa)

I am indebted to George Burr, editor of The Winter Haven Herald for this gem of wisdom: "When you are inclined to be intolerant, just remember one thing: You and the other fellow are fundamentally pretty much alike; you just happen to be ignorant on different subjects."

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Kapoks in Florida

(Continued from Page 14)

and matures into bursting white bolls early in the fall.

Made Into Cushions

Before Dr. McMullen moved away, he harvested his kapok crop each season, for his wife to make into cushions, and sold young trees which he raised from the seeds. Not many of the plants survived, however, for the kapok is not native to Florida. Except in rare cases, it apparently demands a more typically tropical climate.

It is cultivated extensively in Java, and to some extent in the Philippines, the Malay states and Ceylon. However, it is usually found growing wild rather than on plantations. It is also native to Africa, and to the West Indies, and other parts of tropical America. Grown under widely different conditions in different parts of the world, it has developed numerous strains and varieties.

When young, the trunk and branches of the kapok tree are covered with sharp, protective spines, which later disappear. Also, as the tree ages, the trunk enlarges near the base, and the bracing buttresses grow out in long, undulating runners, then root deeply to anchor the massive structure securely into the ground. As a result, the trees stand staunch and protected against even the heaviest hurricanes.

Production of the silk cotton fiber begins when the kapok tree is from five to seven years of age. The tree may continue to yield crops thereafter for well over half a century.

In Life Preservers

The kapok fiber is too short for textiles, so does not compete with cotton for yarn or woven fabrics. It has outstanding qualities of its own, however. It is resilient, buoyant and water resistant, characteristics which make it highly valuable for stuffing mattresses and pillows,

for temperature insulation, and particularly for making life preservers.

It is so valuable, in fact, as a moisture-proof filler for life preservers that during the recent war the United States government utilized practically the entire amount of kapok available for the making of life belts for the navy.

While it is the fiber that is most generally known as a commercial

product, with this country alone importing from 6,000 to 10,000 tons per year in normal times, the seeds, also, are not without their uses. They are valuable as a source of kapok oil—a yellowish-green oil of pleasant odor and taste, used for food and soap-making. In some of the Pacific islands the seeds are eaten by the natives, who consider them a great delicacy.

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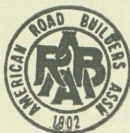
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FERNS FLOWN OVER NATION

By TOM A. PRICE
(Our Own Staff Correspondent)

DELAND—West Volusia County has established itself as source of the background for much of the beauty of the nation. Its plumosus ferns—zipped to far places by air express or speeded to North or West by refrigerated express cars—are the foundation for every floral beauty-piece of the gayest cities of the land.

Here in the county one sees only the drab framework in which the ferns are grown; knows only that they are harvested at eight-week

intervals; hears of them mostly as a "crop." But in New York and Boston, in Pittsburgh and Cincinnati and St. Louis, they grace the debut of every society miss and have places of honor on many an altar.

Nestled away near the asphalt and cement highways and even more along sandy byways in West Volusia, county are numerous bizarre arbor-type constructions which cast eerie shadows in the midday sun. Six feet below the network of slats, supported by cypress poles, one can hardly discern the soft, implanted verdure arranged in almost military fashion row on row.

ROMANCE BORN IN VOLUSIA

Hundreds of miles away in New York City a debutant is about to take her bow before the public. Hurriedly her family summons the florist and orders the necessary sprays to adorn the home. In distant Chicago, a distinguished businessman passes and many friends send flowers to pay final respects to a well-known friend. In Clinton, Iowa, a mother requests permission to decorate the church as a Sunday memorial to her daughter who was drowned a year ago. And there's going to be a woman's club meeting in Des Moines. Chairman of the entertainment committee con-

sults her flower dealer to decorate for the occasion.

There is a connection between the florists in New York, Des, Moines, Clinton, Iowa and Chicago and the slatted plots in Volusia county. The florists all use as background for floral displays an indispensable evergreen, known as the plumosus fern. And beneath those strange looking arbors in Volusia county these ferns are raised, harvested and shipped to points all over the United States. The county alone supplies 60 per cent of the total national consumption.

Center of the plumosus industry is in Pierson, a community of approximately 500 persons. There the largest ferneries in the country are located, and almost daily, shipments are made from the railroad pick up station to large northern and western wholesalers.

The industry, which began scarcely 25 years ago as an experiment, now ranks as one of the county's foremost money crops. It is estimated that more than 3,000,000 crates were shipped last year. The demand has been steady throughout the year, the tips or sprays bringing about one cent each. They are crated in boxes of 500 to 2000 well protected by paper and ice. Chief difficulty with present production lies in shortage of labor and lack of wood for the greenhouses, or arbor-type structures.

SHIPMENT BY AIR

Newest innovation in the business is the development a few months ago of shipment by air. The recent acquisition of the former naval airport by the city and the subsequent establishment of regular air freight schedules has ushered in a new era for fern shipments. This has proved a boon to air expressmen because the fern is the only year round perishable crop Florida produces. And it is estimated air shipment saves 10 days of the life of the cut fern.

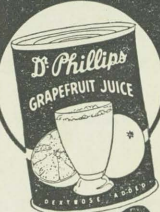
Perhaps the greatest advantage of the trade is reproductivity of the in the county where fern growers to harvest size, they never have to be replanted. There are some cases in the county where fern growers are still harvesting tips from ferns planted 25 years ago.

Until World War II, seeds were obtained from Italy, but in the past few years they have been raised in Florida. Cost is about \$15 a pound and a pound will yield about 5,000 plants. The average acre will accommodate 40,000 plants.

March is the usual time for seed planting. Then there is little likelihood of frost destroying them. About July or August they are transplanted approximately 10 inches between plants and rows in a regular fern bed. Within

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a year a crop is ready for harvesting. Should cold weather kill the tips, the roots are usually undamaged and in eight weeks another crop is ready for harvesting.

The ferns thrive in the sandy west Volusia county soil; however, the cultivated area must be located on soil which has ideal drainage so that the plants will not become thirsty or retain too much moisture which will cause them to sour. Fertilizer must be used about every three months.

In order to secure maximum results the ferns must be raised in two thirds shade and one third sunlight. To provide this ideal situation slats three inches wide are spaced one inch apart approximately six feet above the ground. Usually the sides are boarded up to protect the plants from the wind and cold. In some ferneries, brush is piled atop the structures which render about the same effect. The industry in West Volusia county has grown from about 100 growers in 1924, to more than 300 in 1946. The average fernery is seven acres, but ownership varies from 100 acres to half an acre.

The prospects of the business are excellent, and when the present difficulties are surmounted it is anticipated greater expansion will take place. With the advent of air shipments, these evergreens will come into larger use by out of way places all over the country. Then Volusia county ferns will find their way into a majority of the homes throughout the country.—Orlando Morning Sentinel

JAXON TO PRESENT FAMED OLD STEAMER, 'THREE FRIENDS,' TO CUBA AS SHRINE

The "Three Friends" will sail again. Soon!

Jacksonville's famous old filibustering steamer which played a robust role in the Cuban war for independence, will be formally presented to Cuba by her owner, Mrs. Dorcas Foster, at the international convention of Lions in Philadelphia on Monday.

And if present plans are completed, sometime in the near future, escorted by the Cuban flagship, Cuba, and in tow of two Cuban naval tugs, the grand old boat will leave Jacksonville forever to become a monument and a museum at Havana.

Jaxon to Present Ship

Arrangements for the presentation to Cuba of the vessel, once the property of Napoleon Broward, late governor of Florida, have been completed by George H. Rast, of Leesburg, Fla., district governor of Lions International. At special ceremonies in Philadelphia, Mrs. Foster, known as the "Tugboat Annie" of

Jacksonville, will present the boat to Dr. Ramiro Collazo, of Havana, international president of the Lions.

About seven months ago, Mrs. Foster offered the "Three Friends" as a gift to the City of Jacksonville, to be preserved here as a memorial and a museum. The offer was made at a meeting of the City Commission at a time when Cuba was becoming more and more interested in obtaining the boat as its own "Old Ironsides." When, by July 10, the city had taken no action on the offer, Mrs. Foster agreed to turn the "Three Friends" over to Cuba through the International Lions club.

Mrs. Foster, who, through sentiment and persistency saved the "Three Friends" from being torn apart for kindling wood, will enjoy the fruits of her work tomorrow when she boards the Lions Presidential Special here to be a guest of Dr. Collazo and Rast on the trip to the Philadelphia convention.

Mrs. Foster Happy

"I'm so happy I don't know what to say," Mrs. Foster, a granddaughter of Napoleon Broward, declared. "For awhile it looked as though the 'Three

Friends' would be junked. Then it seemed that nobody wanted her. But now I know she will be in good hands and that she will be preserved for posterity. It seems too good to be true."

Built in 1895 by former Governor Broward, his brother, Montcalm Broward and George A. DeCottes, the three original "three friends," the celebrated old tugboat has had the most colorful filibustering career of any boat in Southern waters. Prior to the outbreak of the Spanish-American war she ran men and munitions to Cuba. She was chased

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around the keys and up and down the east coast of Florida time and again by the Spanish fleet but always managed to come out on top.

Napoleon Broward was her skipper and he is credited with laying the first smoke screen in history. The "Three Friends" was being pursued by the Spanish fleet around the keys and the chase was getting too hot for comfort. Broward ordered his crew to pile hundreds of pounds of bacon—fat bacon—in the boilers. The resulting smoke

hid the "Three Friends" from the enemy fleet and she steamed happily back to Jacksonville.

General Used Ship

Another time, the "Three Friends" picked up Enrico Collazo, renowned Cuban general, who was stranded in the United States when the Spanish blockade cut him off from his native country. The "Three Friends" ran the blockade, engaged in a short but perilous sea battle and landed General Collazo safely near Havana. Dr. Collazo, the Lions president, is reported to be a relative of General Collazo, thus furthering the sentimental attachment which both the Lions and Cuba have for the old boat.

For many years after the Spanish-American war the "Three Friends" operated as a tugboat in the St. Johns river here and had the reputation for being the "fastest tug with the loudest, hootin'est whistle on the river."

In 1944 while moored at the docks of W. T. Coppedge, president of the Florida Towing corporation, she was badly damaged by a hurricane. Coppedge, who had purchased her, decided that she had outlived her usefulness. He ordered her destruction.

Mrs. Foster heard about it, started a one-woman campaign to save the "Three Friends." Finally, Coppedge, who loves boats himself and appreciated Mrs. Foster's sentimental interest in the "Three Friends", formally presented her with her grandfather's old vessel. For the past year it has remained at Coppedge's docks and he has taken excellent care of her.

Rast said that the Lions will rehabilitate and restore the old craft in Jacksonville before she is escorted down the river where she has made history toward dignified retirement in a country she helped to preserve.—Jacksonville Journal.

CHILD'S HATCHET TURNS UP IN HEART OF OLD OAK TREE

Did anyone lose a hatchet about 25 years ago?

This is the question L. H. Blanchette and J. A. Adams, both of 256 Talleyrand avenue, asked after finding a hatchet imbedded in the heart of an old oak tree.

Blanchett and Adams were sawing down the tree in back of an apartment house at 860 Riverside avenue when their saw struck an object in the tree. Both men thought it was a nail and began sawing on the other side of the tree.

The tree came down after being sawed completely around in order to get away from the solid object which appeared to take up considerable space in the center of the tree.

The object turned out to be a child's hatchet and it was lodged upright in the center of the tree which was about 16 inches in diameter.

The tree, said to be over 25 years old, had formed two trunks about four feet above the ground and the small hatchet was in the center of the larger of the trunks.—Jacksonville Journal.

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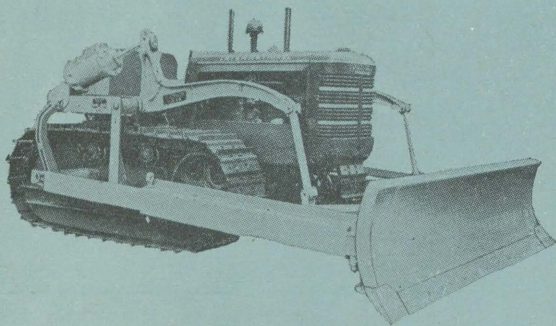


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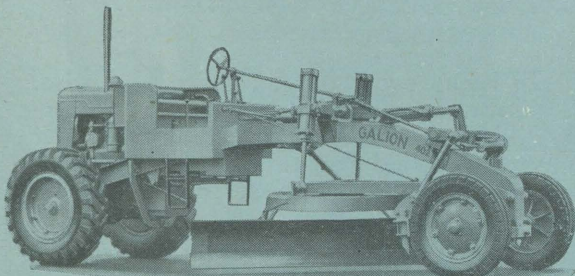
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